

Incident ID	NRM2024756871
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Adrian Baker Title: SSHECoordinator

Signature: Adrian Baker Date: 07/13/2021

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



WSP USA

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

July 14, 2021

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

**RE: Closure Request
Muy Wayno Frac Pond
Incident Numbers NRM2024756871, NRM2028241966, NAPP2102239584, and
NAPP2102626563
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, excavation, and soil sampling activities at the Muy Wayno Frac Pond (Site) in Unit C, Section 7, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sample activities was to address impacts to soil following four releases of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2024756871, NRM2028241966, NAPP2102239584, and NAPP2102626563.

RELEASE BACKGROUND

On August 18, 2020, a leak developed from the aboveground storage tank, releasing approximately 8.24 barrels (bbls) of produced water into impermeable containment. The containment was breached and a small amount of produced water released onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 8 bbls of produced water were recovered from within the containment. No released fluids escaped the well pad. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 1, 2020. The release was assigned Incident Number NRM2024756871.

On September 23, 2020, an aluminum cam lock on the discharge pump failed, releasing approximately 121.25 bbls of produced water into impermeable containment. Approximately 1.25 bbls released outside of the containment onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 120 bbls of produced water were recovered. XTO reported the release to the NMOCD via email on September 23, 2020.



A Form C-141 was submitted on October 7, 2020 and the release was assigned Incident Number NRM2028241966.

On January 18, 2021, while loading disposal bins onto a truck, approximately 21.01 bbls of recycled produced water released into the impermeable containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 20 bbls of recycled produced water were recovered from the containment. Approximately 1.01 bbls released onto the caliche well pad. XTO reported the release to the NMOCD on a Form C-141 on January 22, 2021. The release was assigned Incident Number NAPP2102239584.

On January 19, 2021, an isolation valve failed on a disconnected backwash line, resulting in the release of approximately 17.81 bbls of produced water into impermeable containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 15 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Form C-141 on January 26, 2021. The release was assigned Incident Number NAPP2102626563.

As part of initial release response, XTO mapped the extent of each release and provided the information to WSP personnel.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320857103553301, located approximately 0.24 miles northwest of the Site. The groundwater well was most recently measured in January 1998 with a reported depth to groundwater of 264 feet bgs and a total depth of 385 feet bgs. Ground surface elevation at the groundwater well location is 3,169 feet above mean sea level (amsl), which is approximately 3 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 330 feet 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 (low potential karst designation area). Site receptors are identified on Figure 1.



CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 8, 2020, WSP personnel visited the Site to evaluate the August 18, 2020 release extent based on information provided on the Form C-141, visual observations, and information provided by XTO personnel. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of approximately 0.25 feet bgs to assess the lateral extent of the impacted soil. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

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

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Further assessment and remediation efforts were postponed due to ongoing operations at the well pad near the four release extents, resulting in activity restrictions at the Site due to safety



concerns. The four release extents were inaccessible due to completions equipment and a temporary tank, which was scheduled to be removed. Remediation activities would proceed once the tank and equipment were removed, and the four releases would be addressed simultaneously. The release extents were mapped by XTO personnel and are depicted on Figure 2. Per 19.15.29.12.B.(1) NMAC, three extensions for submission of a remediation work plan or closure report were requested to the NMOCD for Incident Number NRM2024756871 and NRM2028241966. The initial extension was requested on October 22, 2020, the second was requested January 2021, the final extension was requested May 7, 2021, extending the deadline to August 21, 2021. One extension for submission of a remediation work plan or closure report was requested to the NMOCD for Incident Number NAPP2102239584 and NAPP2102626563. The extension was requested on April 9, 2021, extending the deadline to July 17, 2021.

On May 13, 2021, once the equipment and tank were removed, WSP personnel returned to the Site to oversee excavation activities based on observed staining in the release areas, field screening results, and laboratory analytical results for the preliminary soil samples. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Based on field screening results, the excavations were completed to depths ranging from 0.5 feet to 1-foot bgs.

Following removal of impacted soil from each release area, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. Composite soil samples FS01 through FS41 were collected from the floor of the excavations from depths ranging from 0.5 feet to 1-foot bgs. Due to the shallow depth of the excavations, the floor soil samples represented the floor and sidewalls of the excavations. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extents and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 2.

The final combined excavation extents measured approximately 8,109 square feet in area. A total of approximately 150 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavations were backfilled immediately.

Laboratory analytical results for floor samples FS01 and FS41 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

Given the proximity of pasture north of the pad where the release occurred for Incident Numbers NRM2024756871 and NAPP2102626563, WSP collected three surface samples (SS03 through



SS05) from a depth of 0.5 feet bgs to confirm the lateral extent of the two release events. Laboratory analytical results for surface samples SS03 through SS05 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. The surface soil sample locations are presented on Figure 3. The surface samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from four produced water release events. Laboratory analytical results for the excavation soil samples collected from the final excavation extents, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavations with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extents. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Numbers NRM2024756871, NRM2028241966, NAPP2102239584, and NAPP2102626563.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Kalei Jennings".

Kalei Jennings
Associate Consultant

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

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

cc: Adrian Baker, XTO
Ryan Mann, New Mexico State Land Office

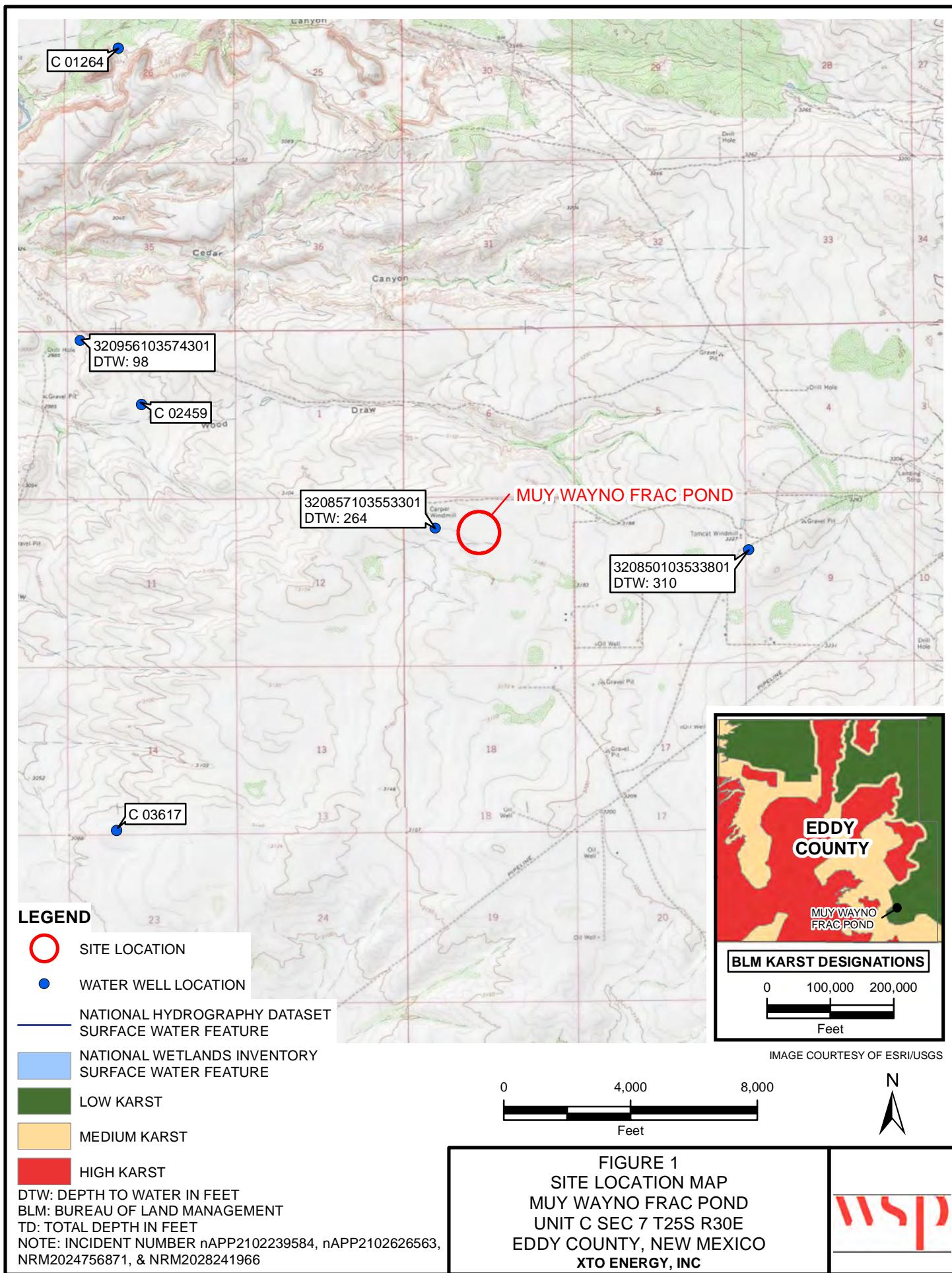


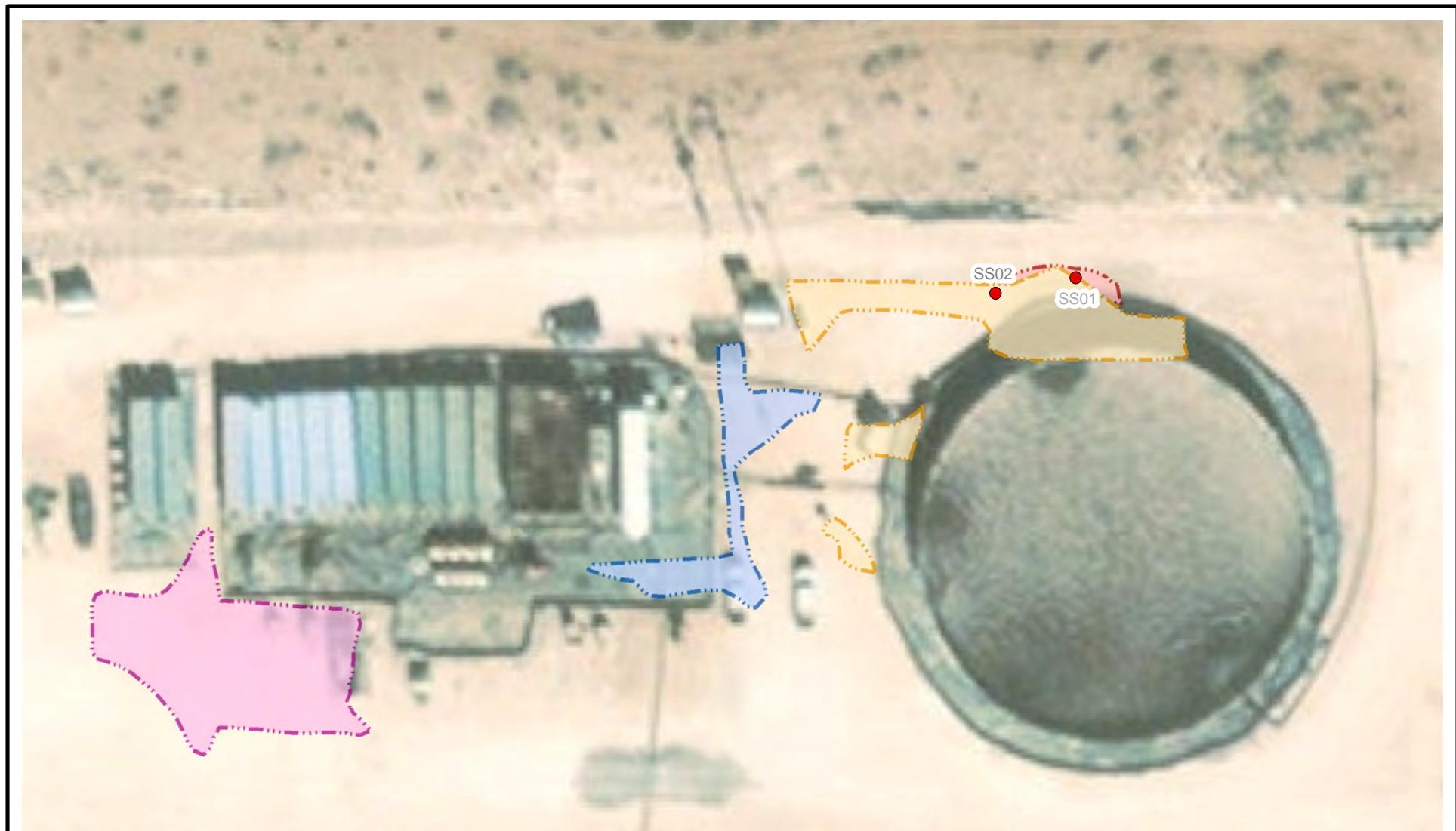
District II
Page 6

Attachments:

- Figure 1 Site Location Map
- Figure 2 Release Extents and Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports

FIGURES



**LEGEND**

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT (nAPP2102239584)
- RELEASE EXTENT (nAPP2102626563)
- RELEASE EXTENT (NRM2024756871)
- RELEASE EXTENT (NRM2028241966)

NOTE: INCIDENT NUMBERS nAPP2102239584, nAPP2102626563, NRM2024756871, & NRM2028241966

IMAGE COURTESY OF ESRI

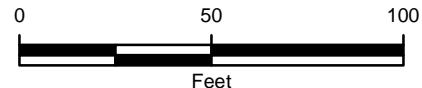
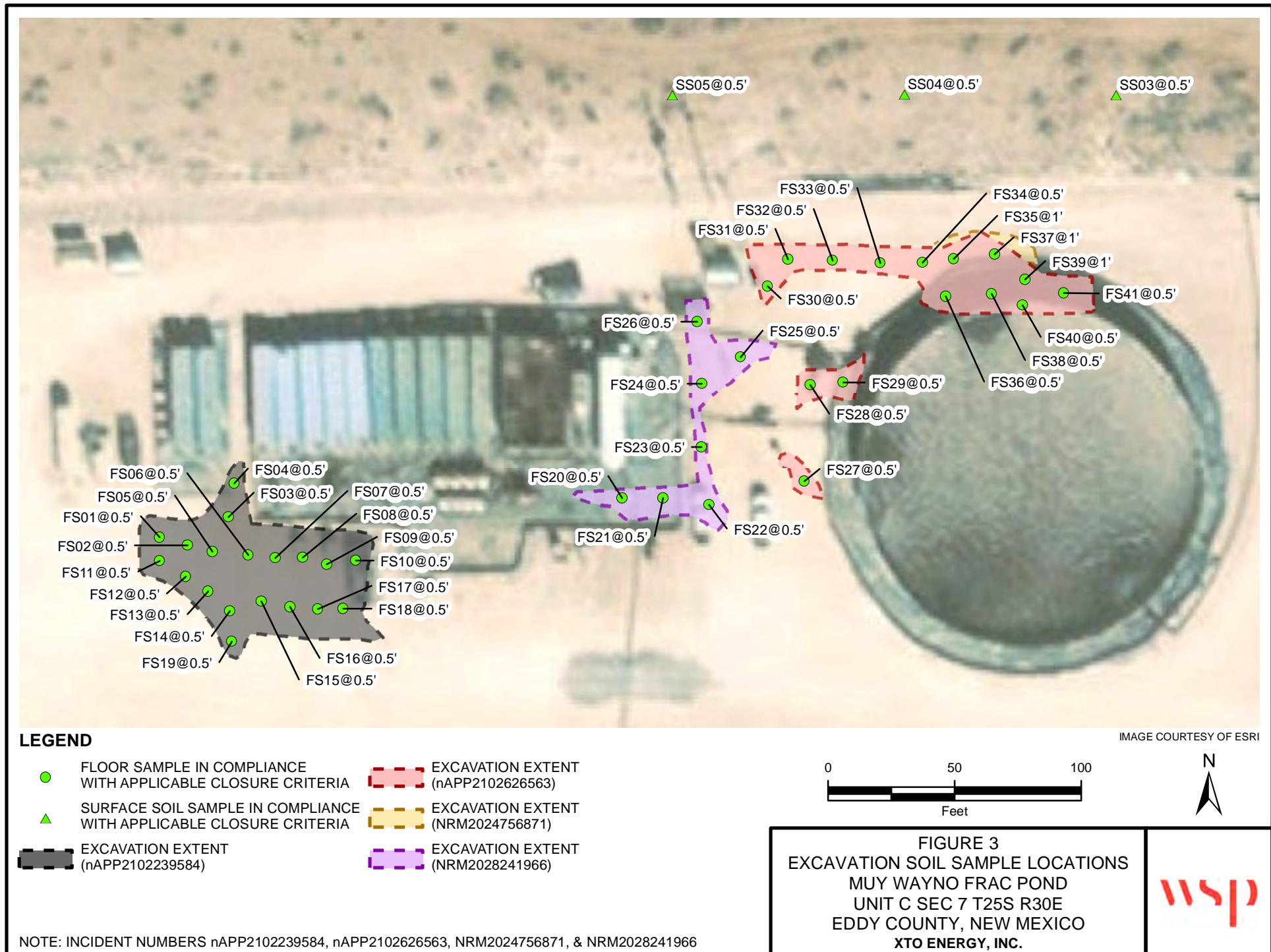


FIGURE 2
RELEASE EXTENTS AND PRELIMINARY SOIL SAMPLE LOCATIONS
MUY WAYNO FRAC POND
UNIT C SEC 7 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

The WSP logo, consisting of the letters "WSP" in a stylized red font.



TABLES

Table 1

Soil Analytical Results
Muy Wayno Frac Pond
Incident Numbers: NRM2024756871, NRM2028241966, NAPP2102239584, and NAPP2102626563
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Samples										
SS01	09/08/2020	0.25	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	25.400
SS02	09/08/2020	0.25	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	29,500
SS03	05/26/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	34.7
SS04	05/26/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	99.7
SS05	05/26/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	124
Excavation Floor Samples										
FS01	05/13/2021	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	393
FS02	05/13/2021	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	232
FS03	05/13/2021	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	4,720
FS04	05/13/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,680
FS05	05/13/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,940
FS06	05/13/2021	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,330
FS07	05/13/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	662
FS08	05/13/2021	0.5	<0.00198	<0.00397	67.4	<49.8	<49.8	<49.8	67.4	2,050
FS09	05/13/2021	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,410
FS10	05/13/2021	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,710
FS11	05/14/2021	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	398
FS12	05/14/2021	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	341
FS13	05/14/2021	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	445
FS14	05/14/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	318

Table 1

**Soil Analytical Results
Muy Wayno Frac Pond**
Incident Numbers: NRM2024756871, NRM2028241966, NAPP2102239584, and NAPP2102626563
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS15	05/14/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	154
FS16	05/14/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	350
FS17	05/14/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	383
FS18	05/14/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	673
FS19	05/14/2021	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	59.5
FS20	05/14/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8,750
FS21	05/14/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,330
FS22	05/14/2021	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	7,840
FS23	05/14/2021	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	7,100
FS24	05/14/2021	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	10,100
FS25	05/14/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	6,230
FS26	05/14/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	3,640
FS27	05/14/2021	0.5	<0.00200	<0.00399	137	<50.0	<50.0	<50.0	137	10,200
FS28	05/14/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12,400
FS29	05/14/2021	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	9,010
FS30	05/14/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	12,400
FS31	05/14/2021	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	10,800
FS32	05/14/2021	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	10,800
FS33	05/14/2021	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	11,400
FS34	05/14/2021	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	9,780
FS35	05/14/2021	1.0	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9,920

Table 1

Soil Analytical Results
Muy Wayno Frac Pond
Incident Numbers: NRM2024756871, NRM2028241966, NAPP2102239584, and NAPP2102626563
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS36	05/14/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	9,980
FS37	05/14/2021	1.0	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,480
FS38	05/14/2021	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	7,280
FS39	05/14/2021	1.0	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	5,070
FS40	05/14/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	10,700
FS41	05/14/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	5,850

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Text impacted soil was excavated

ATTACHMENT 1: REFERENCED WELL RECORD



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 07162 **Subbasin:** RA **Cross Reference:-**

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: AMERICAN GROUNDWATER CONSULT.

Documents on File

Trn #	Doc	File/Act	Status			From/ To	Acres	Diversion	Consumptive
			1	2	Transaction Desc.				
243448	EXPL	1983-05-04	PMT	APR	RA 07162	T	0	0	0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	64 16 4 Sec	Tws Rng	Q Q Q		X	Y	Other Location Desc		
					Shallow	3	1	29	10S 25E	552820	3698107*
RA 07162					Shallow	4	2	2	30 10S 25E	552615	3698106*
RA 07162 EXP					Shallow	3	4	1	29 10S 25E	553221	3697707*
RA 07162 EXP1					Shallow	1	3	1	29 10S 25E	552819	3697904*
RA 07162 EXP2											

An () after northing value indicates UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 07162 EXP2	1	3	1	29	10S	25E	552819	3697904* 

Driller License: 784 **Driller Company:** STEPHENS, RAY WELDING & DRLG.

Driller Name:

Drill Start Date: 05/04/1983

Drill Finish Date: 05/05/1983

Plug Date:

Log File Date: 05/19/1983

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 4.00

Depth Well: 55 feet

Depth Water: 40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	55	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	55

*UTM location was derived from PLSS - see Help

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

7/20/2020 8:39 AM

Page 1 of 1

POD SUMMARY - RA 07162 EXP2



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Data Category:	Geographic Area:
Site Information	United States

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USGS 320857103553301 25S.30E.07.112331

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Well Site

DESCRIPTION:

Latitude 32°08'57", Longitude 103°55'33" NAD27
 Eddy County, New Mexico , Hydrologic Unit 13060011
 Well depth: 385 feet
 Land surface altitude: 3,169 feet above NAVD88.
 Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"
 (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-05	1998-01-28	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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

[Questions about sites/data?](#)
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Title: NWIS Site Information for USA: Site Inventory

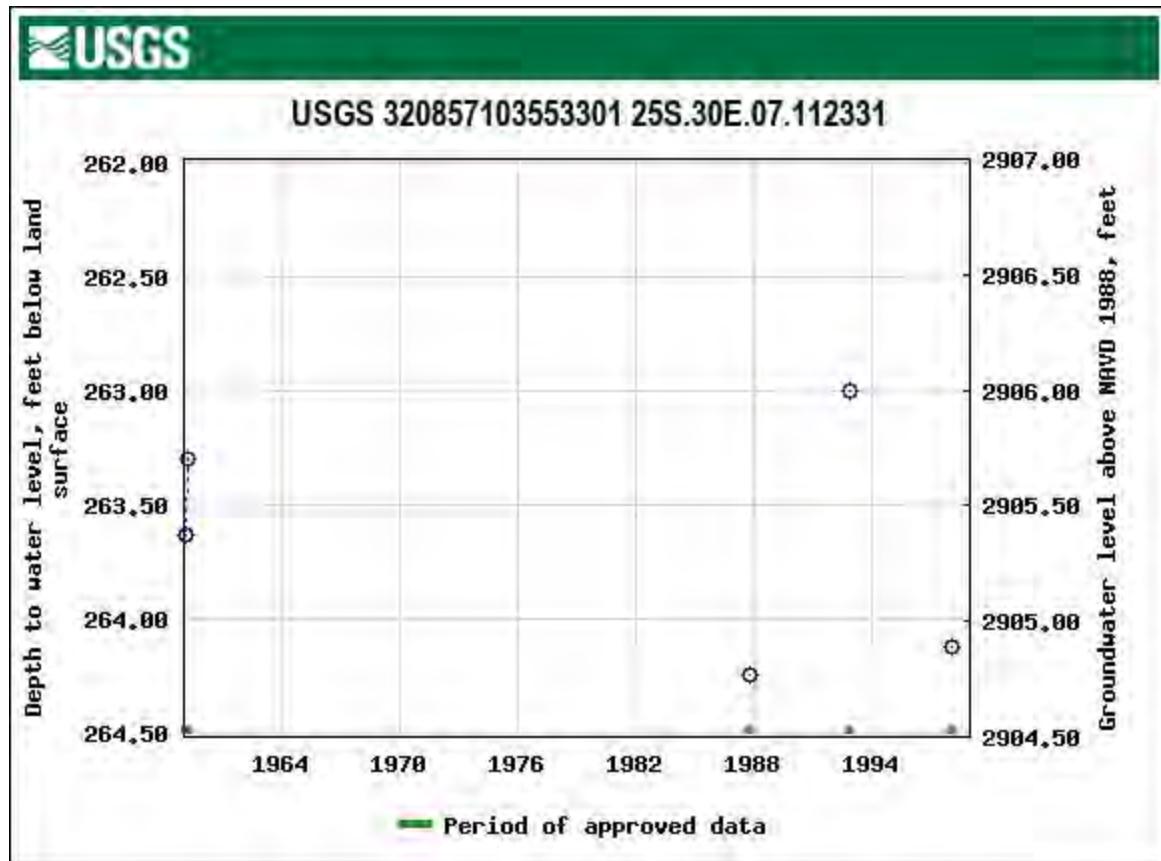
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320857103553301



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

Page Last Modified: 2020-07-20 10:12:31 EDT

0.48 0.42 caww01



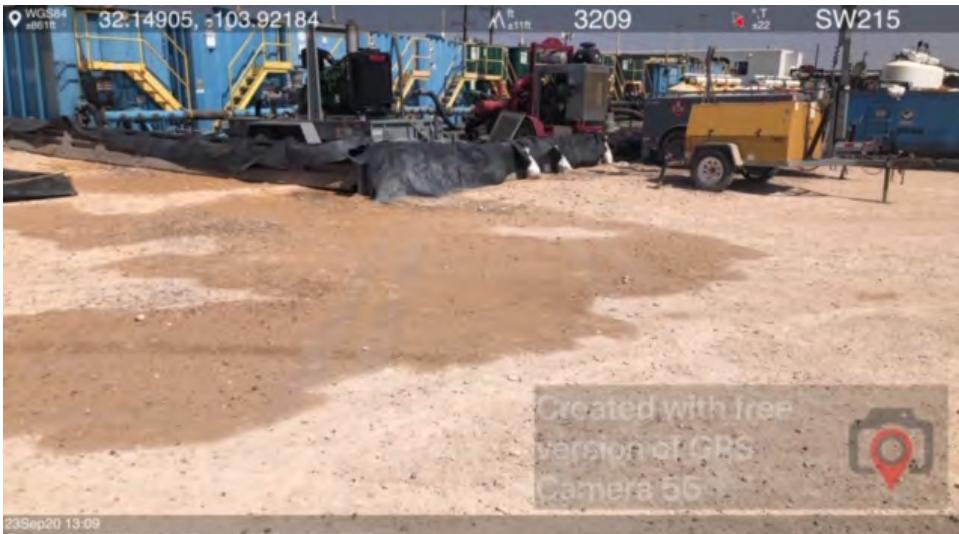
ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

XTO Energy, Inc.	Muy Wayno Frac Pond Eddy County, New Mexico	NRM2024756871, NRM2028241966, NAPP2102239584, NAPP2102626563
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Photo No.	Date	
1	August 10, 2020	
View of initial release area for Incident Number NRM2024756871.		 32.14907, -103.92183 3171 SW235 Created with free version of GPS Camera 55

Photo No.	Date	
2	September 23, 2020	
View of initial release area for Incident Number NRM2028241966 facing southwest.		 32.14905, -103.92184 3209 SW215 Created with free version of GPS Camera 55



PHOTOGRAPHIC LOG

XTO Energy, Inc.	Muy Wayno Frac Pond Eddy County, New Mexico	NRM2024756871, NRM2028241966, NAPP2102239584, NAPP2102626563
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Photo No.	Date	
3	September 23, 2020	<p style="margin: 0;">View of initial release area for Incident Number NRM2028241966 facing northwest.</p> <p style="margin: 0; font-size: small;">23Sep20 11:23 Carlsbad, NM 88220, United States d 23-Sep-20 11:23:58</p>

Photo No.	Date	
4	January 21, 2021	<p style="margin: 0;">View of initial release area for Incident Number NAPP2102239584.</p>



PHOTOGRAPHIC LOG

XTO Energy, Inc.	Muy Wayno Eddy County, New Mexico	NRM2024756871, NRM2028241966, NAPP2102239584, NAPP2102626563
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Photo No. 5	Date January 21, 2021	
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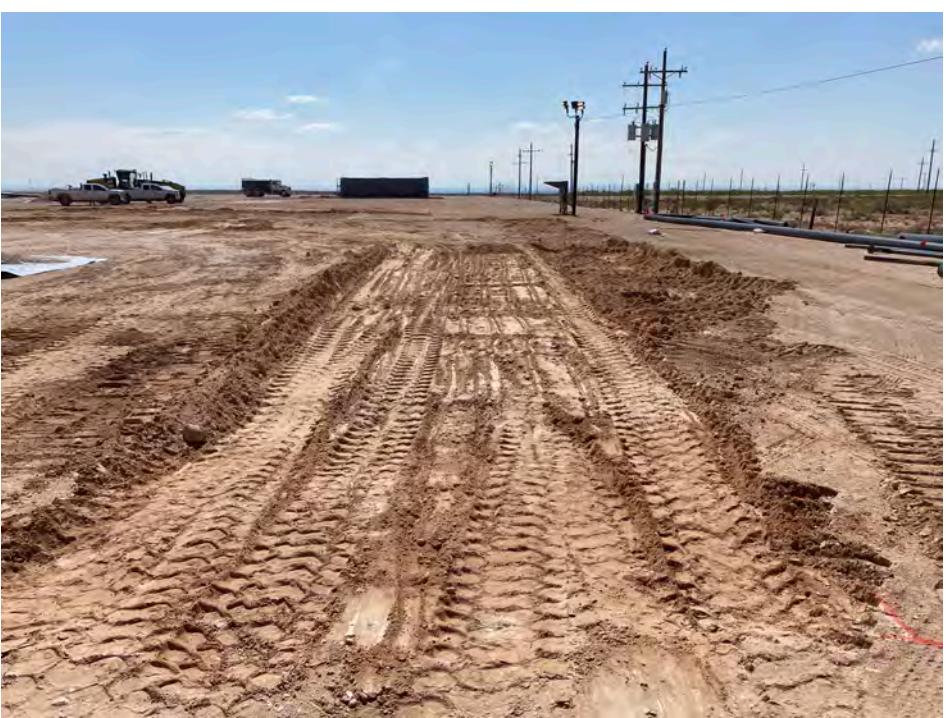
Photo No. 6	Date January 21, 2021	
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PHOTOGRAPHIC LOG

XTO Energy, Inc.	Muy Wayno Eddy County, New Mexico	NRM2024756871, NRM2028241966, NAPP2102239584, NAPP2102626563
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Photo No.	Date	
7	May 12, 2021	
View of excavation activities facing south.		

Photo No.	Date	
8	May 12, 2021	
View of excavation activities facing west.		

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

Certificate of Analysis Summary 671992

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Frac Pond 8-18-20

Project Id: 012920125

Date Received in Lab: Tue 09.08.2020 12:40

Contact: Dan Moir

Report Date: 09.09.2020 10:08

Project Location: Eddy County

Project Manager: Jessica Kramer

Analysis Requested		<i>Lab Id:</i>	671992-001	671992-002				
		<i>Field Id:</i>	SS01	SS02				
		<i>Depth:</i>	0.5- ft	0.5- ft				
		<i>Matrix:</i>	SOIL	SOIL				
		<i>Sampled:</i>	09.08.2020 09:44	09.08.2020 09:45				
BTEX by EPA 8021B		<i>Extracted:</i>	09.08.2020 15:56	09.08.2020 15:56				
		<i>Analyzed:</i>	09.08.2020 19:01	09.08.2020 19:23				
		<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL		
Benzene			<0.00198	0.00198	<0.00202	0.00202		
Toluene			<0.00198	0.00198	<0.00202	0.00202		
Ethylbenzene			<0.00198	0.00198	<0.00202	0.00202		
m,p-Xylenes			<0.00397	0.00397	<0.00404	0.00404		
o-Xylene			<0.00198	0.00198	<0.00202	0.00202		
Total Xylenes			<0.00198	0.00198	<0.00202	0.00202		
Total BTEX			<0.00198	0.00198	<0.00202	0.00202		
Chloride by EPA 300		<i>Extracted:</i>	09.08.2020 15:53	09.08.2020 15:53				
		<i>Analyzed:</i>	09.08.2020 16:19	09.08.2020 16:36				
		<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL		
Chloride			25400	498	29500	502		
TPH by SW8015 Mod		<i>Extracted:</i>	09.08.2020 16:25	09.08.2020 16:25				
		<i>Analyzed:</i>	09.08.2020 19:04	09.08.2020 19:25				
		<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)			<50.0	50.0	<50.1	50.1		
Diesel Range Organics (DRO)			<50.0	50.0	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)			<50.0	50.0	<50.1	50.1		
Total GRO-DRO			<50.0	50.0	<50.1	50.1		
Total TPH			<50.0	50.0	<50.1	50.1		

BRL - Below Reporting Limit

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





Analytical Report 671992

for

LT Environmental, Inc.

Project Manager: Dan Moir

Muy Wayno Frac Pond 8-18-20

012920125

09.09.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.09.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **671992**

Muy Wayno Frac Pond 8-18-20

Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671992. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671992 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "jessica kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 671992****LT Environmental, Inc., Arvada, CO**

Muy Wayno Frac Pond 8-18-20

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09.08.2020 09:44	0.25 ft	671992-001
SS02	S	09.08.2020 09:45	0.25 ft	671992-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Muy Wayno Frac Pond 8-18-20

Project ID: 012920125
Work Order Number(s): 671992

Report Date: 09.09.2020
Date Received: 09.08.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 671992

LT Environmental, Inc., Arvada, CO

Muy Wayno Frac Pond 8-18-20

Sample Id:	SS01	Matrix:	Soil	Date Received:	09.08.2020 12:40		
Lab Sample Id:	671992-001	Date Collected:		09.08.2020 09:44	Sample Depth:	0.25 ft	
Analytical Method: Chloride by EPA 300			Prep Method: E300P				
Tech:	MAB	% Moisture:					
Analyst:	MAB	Date Prep:		09.08.2020 15:53	Basis:	Wet Weight	
Seq Number:	3136620						

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25400	498	mg/kg	09.08.2020 16:19		50

Analytical Method: TPH by SW8015 Mod	Prep Method: SW8015P
Tech: DTH	% Moisture:
Analyst: DTH	Date Prep: 09.08.2020 16:25
Seq Number: 3136626	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.08.2020 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.08.2020 19:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.08.2020 19:04	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.08.2020 19:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.08.2020 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	09.08.2020 19:04	
o-Terphenyl	84-15-1	120	%	70-135	09.08.2020 19:04	

Certificate of Analytical Results 671992

LT Environmental, Inc., Arvada, CO

Muy Wayno Frac Pond 8-18-20

Sample Id:	SS01	Matrix:	Soil	Date Received:	09.08.2020 12:40
Lab Sample Id:	671992-001			Date Collected:	09.08.2020 09:44
Analytical Method: BTEX by EPA 8021B			Prep Method: SW5035A		
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.08.2020 15:56	Basis:	Wet Weight
Seq Number: 3136619					

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.08.2020 19:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.08.2020 19:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.08.2020 19:01		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.08.2020 19:01		

Certificate of Analytical Results 671992

LT Environmental, Inc., Arvada, CO

Muy Wayno Frac Pond 8-18-20

Sample Id: **SS02**
 Lab Sample Id: 671992-002
 Analytical Method: Chloride by EPA 300
 Tech: MAB
 Analyst: MAB
 Seq Number: 3136620

Matrix: Soil
 Date Received: 09.08.2020 12:40
 Date Collected: 09.08.2020 09:45
 Sample Depth: 0.25 ft

Prep Method: E300P
 % Moisture:
 Basis: Wet Weight

Date Prep: 09.08.2020 15:53

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29500	502	mg/kg	09.08.2020 16:36		50

Analytical Method: TPH by SW8015 Mod
 Tech: DTH
 Analyst: DTH
 Seq Number: 3136626

Prep Method: SW8015P
 % Moisture:
 Basis: Wet Weight

Date Prep: 09.08.2020 16:25

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.08.2020 19:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.08.2020 19:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.08.2020 19:25	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.08.2020 19:25	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.08.2020 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	09.08.2020 19:25	
o-Terphenyl	84-15-1	118	%	70-135	09.08.2020 19:25	

Certificate of Analytical Results 671992

LT Environmental, Inc., Arvada, CO

Muy Wayno Frac Pond 8-18-20

Sample Id:	SS02	Matrix:	Soil	Date Received:	09.08.2020 12:40	
Lab Sample Id:	671992-002	Date Collected:		09.08.2020 09:45	Sample Depth:	0.25 ft
Analytical Method: BTEX by EPA 8021B			Prep Method: SW5035A			
Tech:	MAB	% Moisture:				
Analyst:	MAB	Date Prep:	09.08.2020 15:56	Basis:	Wet Weight	
Seq Number:	3136619					

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.08.2020 19:23	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.08.2020 19:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.08.2020 19:23		
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.08.2020 19:23		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 671992

LT Environmental, Inc.
Muy Wayno Frac Pond 8-18-20**Analytical Method:** Chloride by EPA 300

Seq Number:	3136620	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7710945-1-BLK	LCS Sample Id: 7710945-1-BKS				Date Prep: 09.08.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<10.0	250	250	100	250	100	90-110	0	20
								mg/kg	09.08.2020 16:08

Analytical Method: Chloride by EPA 300

Seq Number:	3136620	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	672026-001	MS Sample Id: 672026-001 S				Date Prep: 09.08.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	384	200	574	95	575	96	90-110	0	20
								mg/kg	09.08.2020 16:47

Analytical Method: TPH by SW8015 Mod

Seq Number:	3136626	Matrix: Solid				Prep Method: SW8015P			
MB Sample Id:	7710949-1-BLK	LCS Sample Id: 7710949-1-BKS				Date Prep: 09.08.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	858	86	828	83	70-135	4	35
Diesel Range Organics (DRO)	<50.0	1000	980	98	951	95	70-135	3	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		115		110		70-135	%	09.08.2020 17:23
o-Terphenyl	105		113		110		70-135	%	09.08.2020 17:23

Analytical Method: TPH by SW8015 Mod

Seq Number:	3136626	Matrix: Solid				Prep Method: SW8015P			
MB Sample Id:	7710949-1-BLK	MB Sample Id: 7710949-1-BLK				Date Prep: 09.08.2020			
Parameter	MB Result						Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0						mg/kg	09.08.2020 17:03	

Analytical Method: TPH by SW8015 Mod

Seq Number:	3136626	Matrix: Soil				Prep Method: SW8015P			
Parent Sample Id:	672026-001	MS Sample Id: 672026-001 S				Date Prep: 09.08.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	905	91	884	88	70-135	2	35
Diesel Range Organics (DRO)	<50.2	1000	1040	104	1020	102	70-135	2	35
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane		127			125		70-135	%	09.08.2020 18:23
o-Terphenyl		126			123		70-135	%	09.08.2020 18:23

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 671992

LT Environmental, Inc.
Muy Wayno Frac Pond 8-18-20

Analytical Method: BTEX by EPA 8021B

Seq Number:	3136619	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7710946-1-BLK	LCS Sample Id: 7710946-1-BKS						Date Prep: 09.08.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.0971	97	0.104	104	70-130	7	35	mg/kg	09.08.2020 16:58
Toluene	<0.00200	0.100	0.0953	95	0.102	102	70-130	7	35	mg/kg	09.08.2020 16:58
Ethylbenzene	<0.00200	0.100	0.0899	90	0.0972	97	71-129	8	35	mg/kg	09.08.2020 16:58
m,p-Xylenes	<0.00400	0.200	0.181	91	0.195	98	70-135	7	35	mg/kg	09.08.2020 16:58
o-Xylene	<0.00200	0.100	0.0892	89	0.0960	96	71-133	7	35	mg/kg	09.08.2020 16:58
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	99		99		98		70-130			%	09.08.2020 16:58
4-Bromofluorobenzene	86		90		87		70-130			%	09.08.2020 16:58

Analytical Method: BTEX by EPA 8021B

Seq Number:	3136619	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	671992-001	MS Sample Id: 671992-001 S						Date Prep: 09.08.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0996	0.111	111	0.106	106	70-130	5	35	mg/kg	09.08.2020 17:43
Toluene	<0.00199	0.0996	0.109	109	0.103	103	70-130	6	35	mg/kg	09.08.2020 17:43
Ethylbenzene	<0.00199	0.0996	0.101	101	0.0956	96	71-129	5	35	mg/kg	09.08.2020 17:43
m,p-Xylenes	<0.00398	0.199	0.202	102	0.193	97	70-135	5	35	mg/kg	09.08.2020 17:43
o-Xylene	<0.00199	0.0996	0.0982	99	0.0954	95	71-133	3	35	mg/kg	09.08.2020 17:43
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			98		99		70-130			%	09.08.2020 17:43
4-Bromofluorobenzene			89		89		70-130			%	09.08.2020 17:43

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Eurofins Xenco, LLC**Prelogin/Nonconformance Report- Sample Log-In****Client:** LT Environmental, Inc.**Date/ Time Received:** 09.08.2020 12.40.00 PM**Work Order #:** 671992

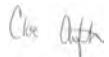
Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6* Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes Samples received in bulk containers.
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

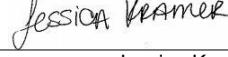
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

 Cloe Clifton

Date: 09.08.2020

Checklist reviewed by:

 Jessica Kramer

Date: 09.09.2020



eurofins

Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-678-1

Laboratory Sample Delivery Group: 314031190

Client Project/Site: Muy Wayno Frac Pond-Big D

For:

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

Attn: Kalei Jennings

Authorized for release by:

5/21/2021 3:18:47 PM

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

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

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

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Laboratory Job ID: 890-678-1
 SDG: 314031190

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
SDG: 314031190

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
SDG: 314031190

Job ID: 890-678-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-678-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2021 10:09 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS07 (890-678-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS13 (890-678-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: FS33 (890-678-33), FS34 (890-678-34), FS35 (890-678-35) and FS38 (890-678-38). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS38 (890-678-38). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3194 and analytical batch 880-3197 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-3200 and analytical batch 880-3166 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 8015B NM: The continuing calibration verification (CCV) associated with batch 880-3166 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) and Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-3220 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) and Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015B NM: The sample have bracketing continuing calibration verifications that were biased high for the diesel range. This is however, the second analysis of this sample and does confirm the first analysis; therefore, data was reported.

FS08 (890-678-8)

Method 8015B NM: All quality control biased high indicating possible high bias in samples. All sample is non-detect under the implied high bias therefore the data has been qualified and reported.

(CCV 880-3220/30)

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
SDG: 314031190

Job ID: 890-678-1 (Continued)**Laboratory: Eurofins Xenco, Carlsbad (Continued)****General Chemistry**

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3258 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: FS01 (890-678-1), FS02 (890-678-2), FS03 (890-678-3), FS04 (890-678-4), FS05 (890-678-5), FS06 (890-678-6), (890-676-A-4-D) and (890-693-A-9-E).

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3253 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: FS08 (890-678-8), FS09 (890-678-9), FS10 (890-678-10), FS11 (890-678-11), FS12 (890-678-12), FS13 (890-678-13), FS14 (890-678-14), FS15 (890-678-15) and FS16 (890-678-16).

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS01
 Date Collected: 05/13/21 14:50
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
Total BTEX	<0.00401	U	0.00401	mg/Kg	05/18/21 14:00	05/18/21 16:25		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/18/21 14:00	05/18/21 16:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/18/21 14:00	05/18/21 16:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 13:08		1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	05/18/21 09:58	05/18/21 13:08		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 13:08		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 13:08		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			05/18/21 09:58	05/18/21 13:08	1
o-Terphenyl	139	S1+	70 - 130			05/18/21 09:58	05/18/21 13:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		5.00	mg/Kg			05/19/21 19:46	1

Client Sample ID: FS02**Lab Sample ID: 890-678-2**

Matrix: Solid

Date Collected: 05/13/21 14:52

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 14:00	05/18/21 16:46		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			05/18/21 14:00	05/18/21 16:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 14:00	05/18/21 16:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS02

Date Collected: 05/13/21 14:52

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:11		1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:11		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:11		1
Total TPH	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			05/18/21 09:58	05/18/21 14:11	1
o-Terphenyl	145	S1+	70 - 130			05/18/21 09:58	05/18/21 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		5.00	mg/Kg			05/19/21 19:51	1

Client Sample ID: FS03

Date Collected: 05/13/21 14:54

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
Toluene	<0.00199	U F1	0.00199	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 14:31		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/18/21 08:38	05/18/21 14:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/18/21 08:38	05/18/21 14:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:32		1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:32		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:32		1
Total TPH	<49.8	U	49.8	mg/Kg	05/18/21 09:58	05/18/21 14:32		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			05/18/21 09:58	05/18/21 14:32	1
o-Terphenyl	138	S1+	70 - 130			05/18/21 09:58	05/18/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4720		49.7	mg/Kg			05/19/21 19:56	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS04
 Date Collected: 05/13/21 14:56
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-4
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 14:51		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/18/21 08:38	05/18/21 14:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/18/21 08:38	05/18/21 14:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 14:53		1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	05/18/21 09:58	05/18/21 14:53		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 14:53		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 14:53		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			05/18/21 09:58	05/18/21 14:53	1
o-Terphenyl	136	S1+	70 - 130			05/18/21 09:58	05/18/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.0	mg/Kg			05/19/21 20:01	5

Client Sample ID: FS05**Lab Sample ID: 890-678-5**

Matrix: Solid

Date Collected: 05/13/21 15:00

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 15:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/18/21 08:38	05/18/21 15:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/18/21 08:38	05/18/21 15:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS05

Date Collected: 05/13/21 15:00

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:14		1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:14		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:14		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:14		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			05/18/21 09:58	05/18/21 15:14	1
o-Terphenyl	141	S1+	70 - 130			05/18/21 09:58	05/18/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		24.8	mg/Kg			05/19/21 20:07	5

Client Sample ID: FS06

Date Collected: 05/13/21 15:02

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
Total BTEX	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 15:32		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/18/21 08:38	05/18/21 15:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 08:38	05/18/21 15:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:35		1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:35		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:35		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 15:35		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			05/18/21 09:58	05/18/21 15:35	1
o-Terphenyl	143	S1+	70 - 130			05/18/21 09:58	05/18/21 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		25.0	mg/Kg			05/19/21 20:12	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS07
 Date Collected: 05/13/21 15:04
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-7
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 15:52		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		92		70 - 130		05/18/21 08:38	05/18/21 15:52	1
1,4-Difluorobenzene (Surr)		98		70 - 130		05/18/21 08:38	05/18/21 15:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 15:56		1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg	05/18/21 09:58	05/18/21 15:56		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 15:56		1
Total TPH	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 15:56		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane		115		70 - 130		05/18/21 09:58	05/18/21 15:56	1
o-Terphenyl		130		70 - 130		05/18/21 09:58	05/18/21 15:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662	F1	4.99	mg/Kg			05/19/21 16:51	1

Client Sample ID: FS08**Lab Sample ID: 890-678-8**

Date Collected: 05/13/21 15:06

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
Total BTEX	<0.00397	U	0.00397	mg/Kg	05/18/21 08:38	05/18/21 16:13		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		96		70 - 130		05/18/21 08:38	05/18/21 16:13	1
1,4-Difluorobenzene (Surr)		98		70 - 130		05/18/21 08:38	05/18/21 16:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS08

Date Collected: 05/13/21 15:06

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 19:04		1
Diesel Range Organics (Over C10-C28)	67.4		49.8	mg/Kg	05/19/21 08:36	05/19/21 19:04		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 19:04		1
Total TPH	67.4		49.8	mg/Kg	05/19/21 08:36	05/19/21 19:04		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			05/19/21 08:36	05/19/21 19:04	1
o-Terphenyl	144	S1+	70 - 130			05/19/21 08:36	05/19/21 19:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		25.3	mg/Kg			05/19/21 19:13	5

Client Sample ID: FS09

Date Collected: 05/13/21 15:13

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
Total BTEX	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 16:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/18/21 08:38	05/18/21 16:33	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/18/21 08:38	05/18/21 16:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 16:38		1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	05/18/21 09:58	05/18/21 16:38		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 16:38		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:58	05/18/21 16:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			05/18/21 09:58	05/18/21 16:38	1
o-Terphenyl	146	S1+	70 - 130			05/18/21 09:58	05/18/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		25.1	mg/Kg			05/19/21 17:11	5

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS10
 Date Collected: 05/13/21 15:15
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-10
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
Total BTEX	<0.00400	U	0.00400	mg/Kg	05/18/21 08:38	05/18/21 16:53		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/18/21 08:38	05/18/21 16:53	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/18/21 08:38	05/18/21 16:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 16:59		1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg	05/18/21 09:58	05/18/21 16:59		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 16:59		1
Total TPH	<50.0	U	50.0	mg/Kg	05/18/21 09:58	05/18/21 16:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			05/18/21 09:58	05/18/21 16:59	1
o-Terphenyl	144	S1+	70 - 130			05/18/21 09:58	05/18/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		24.9	mg/Kg			05/19/21 17:16	5

Client Sample ID: FS11**Lab Sample ID: 890-678-11**

Matrix: Solid

Date Collected: 05/14/21 09:10

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
Total BTEX	<0.00396	U	0.00396	mg/Kg	05/18/21 08:38	05/18/21 17:14		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/18/21 08:38	05/18/21 17:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/18/21 08:38	05/18/21 17:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS11

Date Collected: 05/14/21 09:10

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 11:37		1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg	05/19/21 08:36	05/19/21 11:37		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 11:37		1
Total TPH	<49.9	U F1	49.9	mg/Kg	05/19/21 08:36	05/19/21 11:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			05/19/21 08:36	05/19/21 11:37	1
o-Terphenyl	150	S1+	70 - 130			05/19/21 08:36	05/19/21 11:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		24.9	mg/Kg			05/19/21 17:21	5

Client Sample ID: FS12

Date Collected: 05/14/21 09:12

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 18:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/18/21 08:38	05/18/21 18:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/18/21 08:38	05/18/21 18:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 12:39		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 12:39		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 12:39		1
Total TPH	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 12:39		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			05/19/21 08:36	05/19/21 12:39	1
o-Terphenyl	155	S1+	70 - 130			05/19/21 08:36	05/19/21 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341		4.95	mg/Kg			05/19/21 17:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS13
 Date Collected: 05/14/21 09:14
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-13
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:17		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			05/18/21 08:38	05/18/21 19:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 08:38	05/18/21 19:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 13:00		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 13:00		1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 13:00		1
Total TPH	<49.8	U	49.8	mg/Kg	05/19/21 08:36	05/19/21 13:00		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			05/19/21 08:36	05/19/21 13:00	1
o-Terphenyl	137	S1+	70 - 130			05/19/21 08:36	05/19/21 13:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		4.95	mg/Kg			05/19/21 17:43	1

Client Sample ID: FS14**Lab Sample ID: 890-678-14**

Date Collected: 05/14/21 09:16

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 08:38	05/18/21 19:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			05/18/21 08:38	05/18/21 19:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 08:38	05/18/21 19:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS14

Date Collected: 05/14/21 09:16

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:22		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:22		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:22		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			05/19/21 08:36	05/19/21 13:22	1
o-Terphenyl	134	S1+	70 - 130			05/19/21 08:36	05/19/21 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		5.00	mg/Kg			05/19/21 17:48	1

Client Sample ID: FS15

Date Collected: 05/14/21 09:18

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 19:57		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/18/21 08:38	05/18/21 19:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 08:38	05/18/21 19:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:42		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:42		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:42		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 13:42		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			05/19/21 08:36	05/19/21 13:42	1
o-Terphenyl	137	S1+	70 - 130			05/19/21 08:36	05/19/21 13:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.04	mg/Kg			05/19/21 17:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS16
 Date Collected: 05/14/21 09:20
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-16
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:18		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/18/21 08:38	05/18/21 20:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/18/21 08:38	05/18/21 20:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 14:03		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 14:03		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 14:03		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 14:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/19/21 08:36	05/19/21 14:03	1
o-Terphenyl	140	S1+	70 - 130			05/19/21 08:36	05/19/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.05	mg/Kg			05/19/21 17:58	1

Client Sample ID: FS17**Lab Sample ID: 890-678-17**

Date Collected: 05/14/21 09:22

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 08:38	05/18/21 20:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			05/18/21 08:38	05/18/21 20:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/18/21 08:38	05/18/21 20:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS17**Lab Sample ID: 890-678-17**

Matrix: Solid

Date Collected: 05/14/21 09:22
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 14:24		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 14:24		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 14:24		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 14:24		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			05/19/21 08:36	05/19/21 14:24	1
o-Terphenyl	134	S1+	70 - 130			05/19/21 08:36	05/19/21 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		4.98	mg/Kg			05/19/21 18:03	1

Client Sample ID: FS18**Lab Sample ID: 890-678-18**

Matrix: Solid

Date Collected: 05/14/21 09:24
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 08:38	05/18/21 20:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/18/21 08:38	05/18/21 20:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/18/21 08:38	05/18/21 20:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 15:20		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 15:20		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 15:20		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 15:20		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			05/19/21 08:36	05/19/21 15:20	1
o-Terphenyl	142	S1+	70 - 130			05/19/21 08:36	05/19/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	673		5.04	mg/Kg			05/19/21 18:18	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS19

Date Collected: 05/14/21 09:26

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
Toluene	<0.00202	U	0.00202	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
o-Xylene	<0.00202	U	0.00202	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
Total BTEX	<0.00404	U	0.00404	mg/Kg	05/18/21 08:38	05/18/21 21:19		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/18/21 08:38	05/18/21 21:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/18/21 08:38	05/18/21 21:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 18:22		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 18:22		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 18:22		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:36	05/19/21 18:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			05/19/21 08:36	05/19/21 18:22	1
o-Terphenyl	143	S1+	70 - 130			05/19/21 08:36	05/19/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.5		4.97	mg/Kg			05/19/21 18:23	1

Client Sample ID: FS20

Date Collected: 05/14/21 09:37

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 14:40		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			05/18/21 12:00	05/18/21 14:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/18/21 12:00	05/18/21 14:40	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS20
 Date Collected: 05/14/21 09:37
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-20
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 18:43		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 18:43		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 18:43		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 18:43		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			05/19/21 08:36	05/19/21 18:43	1
o-Terphenyl	139	S1+	70 - 130			05/19/21 08:36	05/19/21 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8750		49.5	mg/Kg			05/19/21 18:38	10

Client Sample ID: FS21
 Date Collected: 05/14/21 09:39
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-21
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 15:05		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			05/18/21 12:00	05/18/21 15:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/18/21 12:00	05/18/21 15:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 13:08		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 13:08		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 13:08		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 13:08		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/18/21 09:59	05/18/21 13:08	1
o-Terphenyl	113		70 - 130			05/18/21 09:59	05/18/21 13:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7330		50.5	mg/Kg			05/19/21 18:43	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS22
 Date Collected: 05/14/21 09:41
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-22
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
Total BTEX	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 15:30		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			05/18/21 12:00	05/18/21 15:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/18/21 12:00	05/18/21 15:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:11		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:11		1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:11		1
Total TPH	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/18/21 09:59	05/18/21 14:11	1
o-Terphenyl	110		70 - 130			05/18/21 09:59	05/18/21 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7840		50.5	mg/Kg			05/19/21 18:48	10

Client Sample ID: FS23

Lab Sample ID: 890-678-23

Date Collected: 05/14/21 09:43

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
Toluene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
o-Xylene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
Total BTEX	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/18/21 15:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/18/21 12:00	05/18/21 15:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/18/21 12:00	05/18/21 15:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS23
 Date Collected: 05/14/21 09:43
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-23
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:32		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:32		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:32		1
Total TPH	<49.8	U	49.8	mg/Kg	05/18/21 09:59	05/18/21 14:32		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			05/18/21 09:59	05/18/21 14:32	1
o-Terphenyl	96		70 - 130			05/18/21 09:59	05/18/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7100		49.8	mg/Kg			05/19/21 18:53	10

Client Sample ID: FS24
 Date Collected: 05/14/21 09:45
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-24
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
Total BTEX	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 16:21		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			05/18/21 12:00	05/18/21 16:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/18/21 12:00	05/18/21 16:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 14:53		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 14:53		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 14:53		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 14:53		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/18/21 09:59	05/18/21 14:53	1
o-Terphenyl	115		70 - 130			05/18/21 09:59	05/18/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10100		50.0	mg/Kg			05/19/21 18:58	10

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS25

Date Collected: 05/14/21 09:47

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 16:46		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/18/21 12:00	05/18/21 16:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/18/21 12:00	05/18/21 16:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:14		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:14		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:14		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:14		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/18/21 09:59	05/18/21 15:14	1
o-Terphenyl	113		70 - 130			05/18/21 09:59	05/18/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6230		50.0	mg/Kg			05/19/21 19:03	10

Client Sample ID: FS26

Date Collected: 05/14/21 09:49

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-26

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 17:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/18/21 12:00	05/18/21 17:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/18/21 12:00	05/18/21 17:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS26
 Date Collected: 05/14/21 09:49
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-26
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:35		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:35		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:35		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 15:35		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/18/21 09:59	05/18/21 15:35	1
o-Terphenyl	115		70 - 130			05/18/21 09:59	05/18/21 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3640		24.8	mg/Kg			05/19/21 19:08	5

Client Sample ID: FS27
 Date Collected: 05/14/21 10:19
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-27
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 17:36		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/18/21 12:00	05/18/21 17:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/18/21 12:00	05/18/21 17:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 15:56		1
Diesel Range Organics (Over C10-C28)	137		50.0	mg/Kg	05/18/21 09:59	05/18/21 15:56		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 15:56		1
Total TPH	137		50.0	mg/Kg	05/18/21 09:59	05/18/21 15:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/18/21 09:59	05/18/21 15:56	1
o-Terphenyl	115		70 - 130			05/18/21 09:59	05/18/21 15:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10200		99.4	mg/Kg			05/20/21 12:48	20

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS28
 Date Collected: 05/14/21 10:21
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-28
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 18:01		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		108		70 - 130		05/18/21 12:00	05/18/21 18:01	1
1,4-Difluorobenzene (Surr)		98		70 - 130		05/18/21 12:00	05/18/21 18:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:17		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:17		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:17		1
Total TPH	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:17		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane		94		70 - 130		05/18/21 09:59	05/18/21 16:17	1
o-Terphenyl		111		70 - 130		05/18/21 09:59	05/18/21 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12400		101	mg/Kg			05/20/21 13:04	20

Client Sample ID: FS29**Lab Sample ID: 890-678-29**

Date Collected: 05/14/21 10:23

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
Total BTEX	<0.00396	U	0.00396	mg/Kg	05/18/21 12:00	05/18/21 18:27		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		112		70 - 130		05/18/21 12:00	05/18/21 18:27	1
1,4-Difluorobenzene (Surr)		102		70 - 130		05/18/21 12:00	05/18/21 18:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS29

Date Collected: 05/14/21 10:23

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-29

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 16:38		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 16:38		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 16:38		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 09:59	05/18/21 16:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			05/18/21 09:59	05/18/21 16:38	1
o-Terphenyl	126		70 - 130			05/18/21 09:59	05/18/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9010		50.2	mg/Kg			05/20/21 13:09	10

Client Sample ID: FS30

Date Collected: 05/14/21 10:32

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
Total BTEX	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 20:10		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			05/18/21 12:00	05/18/21 20:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/18/21 12:00	05/18/21 20:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:59		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:59		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:59		1
Total TPH	<50.0	U	50.0	mg/Kg	05/18/21 09:59	05/18/21 16:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			05/18/21 09:59	05/18/21 16:59	1
o-Terphenyl	107		70 - 130			05/18/21 09:59	05/18/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12400		101	mg/Kg			05/20/21 13:14	20

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS31
 Date Collected: 05/14/21 10:34
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-31
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
Toluene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
o-Xylene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
Total BTEX	<0.00403	U	0.00403	mg/Kg	05/18/21 12:00	05/18/21 20:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/18/21 12:00	05/18/21 20:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/18/21 12:00	05/18/21 20:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 11:37		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 11:37		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 11:37		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 11:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			05/19/21 08:44	05/19/21 11:37	1
o-Terphenyl	101		70 - 130			05/19/21 08:44	05/19/21 11:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		99.8	mg/Kg			05/20/21 13:19	20

Client Sample ID: FS32**Lab Sample ID: 890-678-32**

Date Collected: 05/14/21 10:36

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:04		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			05/18/21 12:00	05/18/21 21:04	1
1,4-Difluorobenzene (Surr)	77		70 - 130			05/18/21 12:00	05/18/21 21:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS32
 Date Collected: 05/14/21 10:36
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-32
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 12:39		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 12:39		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 12:39		1
Total TPH	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 12:39		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/19/21 08:44	05/19/21 12:39	1
o-Terphenyl	118		70 - 130			05/19/21 08:44	05/19/21 12:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		99.8	mg/Kg			05/20/21 13:35	20

Client Sample ID: FS33
 Date Collected: 05/14/21 10:38
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-33
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/18/21 12:00	05/18/21 21:30		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			05/18/21 12:00	05/18/21 21:30	1
1,4-Difluorobenzene (Surr)	111		70 - 130			05/18/21 12:00	05/18/21 21:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 13:00		1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 13:00		1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 13:00		1
Total TPH	<49.8	U	49.8	mg/Kg	05/19/21 08:44	05/19/21 13:00		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			05/19/21 08:44	05/19/21 13:00	1
o-Terphenyl	96		70 - 130			05/19/21 08:44	05/19/21 13:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11400		99.8	mg/Kg			05/20/21 13:40	20

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS34
 Date Collected: 05/14/21 10:40
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-34
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
Total BTEX	<0.00401	U	0.00401	mg/Kg	05/18/21 12:00	05/18/21 21:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			05/18/21 12:00	05/18/21 21:56	1
1,4-Difluorobenzene (Surr)	73		70 - 130			05/18/21 12:00	05/18/21 21:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:22		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:22		1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:22		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			05/19/21 08:44	05/19/21 13:22	1
o-Terphenyl	115		70 - 130			05/19/21 08:44	05/19/21 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9780		49.6	mg/Kg			05/20/21 13:45	10

Client Sample ID: FS35**Lab Sample ID: 890-678-35**

Date Collected: 05/14/21 10:42

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:23		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			05/18/21 12:00	05/18/21 22:23	1
1,4-Difluorobenzene (Surr)	83		70 - 130			05/18/21 12:00	05/18/21 22:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS35

Date Collected: 05/14/21 10:42

Date Received: 05/17/21 10:09

Sample Depth: - 1

Lab Sample ID: 890-678-35

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:42		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:42		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:42		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 13:42		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			05/19/21 08:44	05/19/21 13:42	1
o-Terphenyl	95		70 - 130			05/19/21 08:44	05/19/21 13:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9920		50.1	mg/Kg			05/20/21 13:50	10

Client Sample ID: FS36

Date Collected: 05/14/21 10:44

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Lab Sample ID: 890-678-36

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
Toluene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
o-Xylene	<0.00200	U	0.00200	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
Total BTEX	<0.00399	U	0.00399	mg/Kg	05/18/21 12:00	05/18/21 22:50		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/18/21 12:00	05/18/21 22:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/18/21 12:00	05/18/21 22:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 14:03		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 14:03		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 14:03		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 14:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			05/19/21 08:44	05/19/21 14:03	1
o-Terphenyl	102		70 - 130			05/19/21 08:44	05/19/21 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9980		50.2	mg/Kg			05/20/21 13:55	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS37
 Date Collected: 05/14/21 10:46
 Date Received: 05/17/21 10:09
 Sample Depth: - 1

Lab Sample ID: 890-678-37
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/18/21 12:00	05/18/21 23:17		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		94		70 - 130		05/18/21 12:00	05/18/21 23:17	1
1,4-Difluorobenzene (Surr)		101		70 - 130		05/18/21 12:00	05/18/21 23:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 14:24		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 14:24		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 14:24		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 14:24		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane		93		70 - 130		05/19/21 08:44	05/19/21 14:24	1
o-Terphenyl		108		70 - 130		05/19/21 08:44	05/19/21 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5480		49.8	mg/Kg			05/20/21 14:00	10

Client Sample ID: FS38**Lab Sample ID: 890-678-38**

Date Collected: 05/14/21 10:48

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
Toluene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
o-Xylene	<0.00198	U	0.00198	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
Total BTEX	<0.00397	U	0.00397	mg/Kg	05/18/21 12:00	05/18/21 23:43		1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		167	S1+	70 - 130		05/18/21 12:00	05/18/21 23:43	1
1,4-Difluorobenzene (Surr)		91		70 - 130		05/18/21 12:00	05/18/21 23:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS38
 Date Collected: 05/14/21 10:48
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-38
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 15:20		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 15:20		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 15:20		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 15:20		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			05/19/21 08:44	05/19/21 15:20	1
o-Terphenyl	124		70 - 130			05/19/21 08:44	05/19/21 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7280		50.2	mg/Kg			05/20/21 14:16	10

Client Sample ID: FS39
 Date Collected: 05/14/21 10:50
 Date Received: 05/17/21 10:09
 Sample Depth: - 1

Lab Sample ID: 890-678-39
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
Toluene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
o-Xylene	<0.00202	U	0.00202	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
Total BTEX	<0.00404	U	0.00404	mg/Kg	05/18/21 12:00	05/19/21 00:10		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/18/21 12:00	05/19/21 00:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/18/21 12:00	05/19/21 00:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 18:22		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 18:22		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 18:22		1
Total TPH	<49.9	U	49.9	mg/Kg	05/19/21 08:44	05/19/21 18:22		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/19/21 08:44	05/19/21 18:22	1
o-Terphenyl	129		70 - 130			05/19/21 08:44	05/19/21 18:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5070		50.5	mg/Kg			05/20/21 14:21	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS40
 Date Collected: 05/14/21 10:52
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

Lab Sample ID: 890-678-40
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			05/19/21 14:30	05/19/21 19:16	1
1,4-Difluorobenzene (Surr)	0.7	S1-	70 - 130			05/19/21 14:30	05/19/21 19:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 18:43		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 18:43		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 18:43		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:44	05/19/21 18:43		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			05/19/21 08:44	05/19/21 18:43	1
o-Terphenyl	120		70 - 130			05/19/21 08:44	05/19/21 18:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		101	mg/Kg			05/20/21 14:37	20

Client Sample ID: FS41**Lab Sample ID: 890-678-41**

Date Collected: 05/14/21 10:54

Matrix: Solid

Date Received: 05/17/21 10:09

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/19/21 14:30	05/19/21 19:36		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			05/19/21 14:30	05/19/21 19:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/19/21 14:30	05/19/21 19:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS41**Lab Sample ID: 890-678-41**

Matrix: Solid

Date Collected: 05/14/21 10:54
 Date Received: 05/17/21 10:09
 Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	05/18/21 11:59	05/18/21 14:03		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	05/18/21 11:59	05/18/21 14:03		1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/18/21 11:59	05/18/21 14:03		1
Total TPH	<49.9	U	49.9	mg/Kg	05/18/21 11:59	05/18/21 14:03		1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
1-Chlorooctane	102		70 - 130		05/18/21 11:59	05/18/21 14:03		1
<i>o-Terphenyl</i>	105		70 - 130		05/18/21 11:59	05/18/21 14:03		1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5850		50.3	mg/Kg			05/20/21 14:42	10

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (70-130)	DFBZ1 (70-130)	
890-678-1	FS01	106	99	
890-678-2	FS02	114	98	
890-678-3	FS03	96	100	
890-678-3 MS	FS03	105	100	
890-678-4	FS04	93	102	
890-678-5	FS05	102	94	
890-678-6	FS06	95	98	
890-678-7	FS07	92	98	
890-678-8	FS08	96	98	
890-678-9	FS09	97	97	
890-678-10	FS10	99	95	
890-678-11	FS11	104	95	
890-678-12	FS12	95	100	
890-678-13	FS13	85	98	
890-678-14	FS14	87	98	
890-678-15	FS15	90	98	
890-678-16	FS16	94	98	
890-678-17	FS17	92	97	
890-678-18	FS18	96	97	
890-678-19	FS19	95	99	
890-678-20	FS20	123	92	
890-678-20 MS	FS20	82	89	
890-678-20 MSD	FS20	93	108	
890-678-21	FS21	117	99	
890-678-22	FS22	114	100	
890-678-23	FS23	113	102	
890-678-24	FS24	110	94	
890-678-25	FS25	109	93	
890-678-26	FS26	120	101	
890-678-27	FS27	109	102	
890-678-28	FS28	108	98	
890-678-29	FS29	112	102	
890-678-30	FS30	111	89	
890-678-31	FS31	105	102	
890-678-32	FS32	83	77	
890-678-33	FS33	83	111	
890-678-34	FS34	80	73	
890-678-35	FS35	81	83	
890-678-36	FS36	93	100	
890-678-37	FS37	94	101	
890-678-38	FS38	167 S1+	91	
890-678-39	FS39	94	97	
890-678-40	FS40	111	0.7 S1-	
890-678-41	FS41	112	99	
LCS 880-3194/1-A	Lab Control Sample	102	96	
LCS 880-3195/1-A	Lab Control Sample	107	103	
LCS 880-3196/1-A	Lab Control Sample	105	103	
LCS 880-3223/1-A	Lab Control Sample	100	93	
LCSD 880-3194/2-A	Lab Control Sample Dup	102	97	

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (70-130)	DFBZ1 (70-130)	
LCSD 880-3195/2-A	Lab Control Sample Dup	105	104	
LCSD 880-3196/2-A	Lab Control Sample Dup	99	102	
LCSD 880-3223/2-A	Lab Control Sample Dup	99	94	
MB 880-3194/5-A	Method Blank	107	91	
MB 880-3195/5-A	Method Blank	84	94	
MB 880-3196/5-A	Method Blank	72	85	
MB 880-3223/5-A	Method Blank	106	91	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1	DFBZ1	
890-678-3 MSD	FS03			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
890-678-1	FS01	120	139 S1+	
890-678-1 MS	FS01	109	111	
890-678-1 MSD	FS01	108	110	
890-678-2	FS02	124	145 S1+	
890-678-3	FS03	119	138 S1+	
890-678-4	FS04	121	136 S1+	
890-678-5	FS05	125	141 S1+	
890-678-6	FS06	119	143 S1+	
890-678-7	FS07	115	130	
890-678-8	FS08	122	144 S1+	
890-678-9	FS09	122	146 S1+	
890-678-10	FS10	124	144 S1+	
890-678-11	FS11	128	150 S1+	
890-678-11 MS	FS11	113	118	
890-678-11 MSD	FS11	121	125	
890-678-12	FS12	136 S1+	155 S1+	
890-678-13	FS13	117	137 S1+	
890-678-14	FS14	118	134 S1+	
890-678-15	FS15	122	137 S1+	
890-678-16	FS16	115	140 S1+	
890-678-17	FS17	119	134 S1+	
890-678-18	FS18	121	142 S1+	

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
890-678-19	FS19	123	143 S1+	
890-678-20	FS20	120	139 S1+	
890-678-21	FS21	97	113	
890-678-21 MS	FS21	91	99	
890-678-21 MSD	FS21	90	94	
890-678-22	FS22	95	110	
890-678-23	FS23	83	96	
890-678-24	FS24	98	115	
890-678-25	FS25	100	113	
890-678-26	FS26	97	115	
890-678-27	FS27	98	115	
890-678-28	FS28	94	111	
890-678-29	FS29	108	126	
890-678-30	FS30	92	107	
890-678-31	FS31	90	101	
890-678-31 MS	FS31	83	85	
890-678-31 MSD	FS31	82	85	
890-678-32	FS32	101	118	
890-678-33	FS33	83	96	
890-678-34	FS34	99	115	
890-678-35	FS35	84	95	
890-678-36	FS36	89	102	
890-678-37	FS37	93	108	
890-678-38	FS38	107	124	
890-678-39	FS39	114	129	
890-678-40	FS40	107	120	
890-678-41	FS41	102	105	
890-678-41 MS	FS41	101	90	
890-678-41 MSD	FS41	97	88	
LCS 880-3200/2-A	Lab Control Sample	122	136 S1+	
LCS 880-3201/2-A	Lab Control Sample	97	109	
LCS 880-3210/2-A	Lab Control Sample	102	98	
LCS 880-3219/2-A	Lab Control Sample	105	103	
LCS 880-3222/2-A	Lab Control Sample	87	96	
LCSD 880-3200/3-A	Lab Control Sample Dup	121	128	
LCSD 880-3201/3-A	Lab Control Sample Dup	107	119	
LCSD 880-3210/3-A	Lab Control Sample Dup	105	97	
LCSD 880-3219/3-A	Lab Control Sample Dup	106	113	
LCSD 880-3222/3-A	Lab Control Sample Dup	91	101	
MB 880-3200/1-A	Method Blank	111	130	
MB 880-3201/1-A	Method Blank	95	110	
MB 880-3210/1-A	Method Blank	112	105	
MB 880-3219/1-A	Method Blank	110	129	
MB 880-3222/1-A	Method Blank	91	106	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-3194/5-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3197****Prep Batch: 3194**

Analyte	MB		MB		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL						
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/18/21 08:35	05/18/21 13:13	1
Surrogate	MB		MB		Limits	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier		Limits					
4-Bromofluorobenzene (Surr)	107			70 - 130		05/18/21 08:35	05/18/21 13:13	1	
1,4-Difluorobenzene (Surr)	91			70 - 130		05/18/21 08:35	05/18/21 13:13	1	

Lab Sample ID: LCS 880-3194/1-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3197****Prep Batch: 3194**

Analyte	Spike		LCS		LCS		%Rec.		Limits
	Added	Result	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07243			mg/Kg		72	70 - 130	
Toluene	0.100	0.08903			mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09700			mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1973			mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09996			mg/Kg		100	70 - 130	
Surrogate	LCS		LCS		Limits	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier		Limits					
4-Bromofluorobenzene (Surr)	102			70 - 130		05/18/21 08:35	05/18/21 13:13	1	
1,4-Difluorobenzene (Surr)	96			70 - 130		05/18/21 08:35	05/18/21 13:13	1	

Lab Sample ID: LCSD 880-3194/2-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3197****Prep Batch: 3194**

Analyte	Spike		LCSD		LCSD		%Rec.		RPD	Limit
	Added	Result	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.07261			mg/Kg		73	70 - 130	0	35
Toluene	0.100	0.08635			mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.09331			mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1892			mg/Kg		95	70 - 130	4	35
o-Xylene	0.100	0.09680			mg/Kg		97	70 - 130	3	35
Surrogate	LCSD		LCSD		Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier		Limits						
4-Bromofluorobenzene (Surr)	102			70 - 130		05/18/21 08:35	05/18/21 13:13	1		
1,4-Difluorobenzene (Surr)	97			70 - 130		05/18/21 08:35	05/18/21 13:13	1		

Lab Sample ID: MB 880-3195/5-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3199****Prep Batch: 3195**

Analyte	MB		MB		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL						
Benzene	<0.00200	U	0.00200		mg/Kg		05/18/21 08:38	05/18/21 14:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-3195/5-A****Matrix: Solid****Analysis Batch: 3199****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Toluene	<0.00200	U	0.00200		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
o-Xylene	<0.00200	U	0.00200		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
Total BTEX	<0.00400	U	0.00400		mg/Kg	05/18/21 08:38	05/18/21 14:09		1	
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	84		70 - 130			05/18/21 08:38	05/18/21 14:09		1	
1,4-Difluorobenzene (Surr)	94		70 - 130			05/18/21 08:38	05/18/21 14:09		1	

Lab Sample ID: LCS 880-3195/1-A**Matrix: Solid****Analysis Batch: 3199****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier							
Benzene	0.100	0.08072		mg/Kg			81		70 - 130	
Toluene	0.100	0.08281		mg/Kg			83		70 - 130	
Ethylbenzene	0.100	0.09180		mg/Kg			92		70 - 130	
m-Xylene & p-Xylene	0.200	0.1920		mg/Kg			96		70 - 130	
o-Xylene	0.100	0.09894		mg/Kg			99		70 - 130	
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	107		70 - 130			05/18/21 08:38	05/18/21 14:09		1	
1,4-Difluorobenzene (Surr)	103		70 - 130			05/18/21 08:38	05/18/21 14:09		1	

Lab Sample ID: LCSD 880-3195/2-A**Matrix: Solid****Analysis Batch: 3199****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier								
Benzene	0.100	0.07828		mg/Kg			78		70 - 130	3	35
Toluene	0.100	0.07992		mg/Kg			80		70 - 130	4	35
Ethylbenzene	0.100	0.08818		mg/Kg			88		70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg			92		70 - 130	5	35
o-Xylene	0.100	0.09405		mg/Kg			94		70 - 130	5	35
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	105		70 - 130			05/18/21 08:38	05/18/21 14:09		1		
1,4-Difluorobenzene (Surr)	104		70 - 130			05/18/21 08:38	05/18/21 14:09		1		

Lab Sample ID: 890-678-3 MS**Matrix: Solid****Analysis Batch: 3199****Client Sample ID: FS03****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	Sample	Sample	Spike	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U F1	0.0996	0.06313	F1	mg/Kg			63		70 - 130
Toluene	<0.00199	U F1	0.0996	0.06608	F1	mg/Kg			66		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-678-3 MS****Matrix: Solid****Analysis Batch: 3199****Client Sample ID: FS03****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier						
Ethylbenzene	<0.00199	U	0.0996	0.07234		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1502		mg/Kg		75	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.07723		mg/Kg		78	70 - 130		
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105			70 - 130							
1,4-Difluorobenzene (Surr)	100			70 - 130							

Lab Sample ID: 890-678-3 MSD**Matrix: Solid****Analysis Batch: 3199****Client Sample ID: FS03****Prep Type: Total/NA****Prep Batch: 3195**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00199	U F1	0.0996	0.05696		mg/Kg					
Toluene	<0.00199	U F1	0.0996	0.06281		mg/Kg					
Ethylbenzene	<0.00199	U	0.0996	0.06784		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1377		mg/Kg					
o-Xylene	<0.00199	U	0.0996	0.07073		mg/Kg					
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105			70 - 130							
1,4-Difluorobenzene (Surr)	100			70 - 130							

Lab Sample ID: MB 880-3196/5-A**Matrix: Solid****Analysis Batch: 3198****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3196**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/18/21 08:42	05/18/21 14:14	1
Surrogate		%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72			70 - 130		05/18/21 08:42	05/18/21 14:14	1
1,4-Difluorobenzene (Surr)	85			70 - 130		05/18/21 08:42	05/18/21 14:14	1

Lab Sample ID: LCS 880-3196/1-A**Matrix: Solid****Analysis Batch: 3198****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3196**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Benzene	0.100	0.09520		mg/Kg		95	70 - 130
Toluene	0.100	0.09415		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.10007		mg/Kg		101	70 - 130

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCS 880-3196/1-A****Matrix: Solid****Analysis Batch: 3198****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3196**

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
m-Xylene & p-Xylene		0.200	0.1963		mg/Kg		98	70 - 130
o-Xylene		0.100	0.09500		mg/Kg		95	70 - 130
Surrogate		LCS	LCS					
		%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	105			70 - 130				
1,4-Difluorobenzene (Surr)	103			70 - 130				

Lab Sample ID: LCSD 880-3196/2-A**Matrix: Solid****Analysis Batch: 3198****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 3196**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
Benzene		0.100	0.1127		mg/Kg		113	70 - 130
Toluene		0.100	0.1108		mg/Kg		111	70 - 130
Ethylbenzene		0.100	0.1103		mg/Kg		110	70 - 130
m-Xylene & p-Xylene		0.200	0.2144		mg/Kg		107	70 - 130
o-Xylene		0.100	0.1014		mg/Kg		101	70 - 130
Surrogate		LCSD	LCSD					
		%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99			70 - 130				
1,4-Difluorobenzene (Surr)	102			70 - 130				

Lab Sample ID: 890-678-20 MS**Matrix: Solid****Analysis Batch: 3198****Client Sample ID: FS20****Prep Type: Total/NA****Prep Batch: 3196**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00200	U	0.100	0.08897		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.100	0.09204		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09667		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1836		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.08452		mg/Kg		84	70 - 130
Surrogate		MS	MS						
		%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	82			70 - 130					
1,4-Difluorobenzene (Surr)	89			70 - 130					

Lab Sample ID: 890-678-20 MSD**Matrix: Solid****Analysis Batch: 3198****Client Sample ID: FS20****Prep Type: Total/NA****Prep Batch: 3196**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00200	U	0.101	0.09900		mg/Kg		98	70 - 130
Toluene	<0.00200	U	0.101	0.09870		mg/Kg		98	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.1031		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1992		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.101	0.09347		mg/Kg		93	70 - 130

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-678-20 MSD****Matrix: Solid****Analysis Batch: 3198****Client Sample ID: FS20****Prep Type: Total/NA****Prep Batch: 3196**

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-3223/5-A**Matrix: Solid****Analysis Batch: 3232****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3223**

Analyte	MB	MB			Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL						
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/21 08:58	05/19/21 12:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/19/21 08:58	05/19/21 12:42	1

Surrogate	MB	MB			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		70 - 130		05/19/21 08:58	05/19/21 12:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130		05/19/21 08:58	05/19/21 12:42	1

Lab Sample ID: LCS 880-3223/1-A**Matrix: Solid****Analysis Batch: 3232****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3223**

Analyte		Spike	LCS	LCS		%Rec.
		Added	Result	Qualifier	Unit	D
Benzene		0.100	0.09271		mg/Kg	93
Toluene		0.100	0.1156		mg/Kg	116
Ethylbenzene		0.100	0.1164		mg/Kg	116
m-Xylene & p-Xylene		0.200	0.2404		mg/Kg	120
o-Xylene		0.100	0.1163		mg/Kg	116

Surrogate	LCS	LCS			
	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	100		70 - 130		
1,4-Difluorobenzene (Surr)	93		70 - 130		

Lab Sample ID: LCSD 880-3223/2-A**Matrix: Solid****Analysis Batch: 3232****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 3223**

Analyte		Spike	LCSD	LCSD		%Rec.	RPD
		Added	Result	Qualifier	Unit	D	Limit
Benzene		0.100	0.09617		mg/Kg	96	70 - 130
Toluene		0.100	0.1154		mg/Kg	115	70 - 130
Ethylbenzene		0.100	0.1159		mg/Kg	116	70 - 130
m-Xylene & p-Xylene		0.200	0.2367		mg/Kg	118	70 - 130
o-Xylene		0.100	0.1149		mg/Kg	115	70 - 130

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCSD 880-3223/2-A****Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3232****Prep Batch: 3223**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-3200/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3166****Prep Batch: 3200**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits					
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/21 09:58	05/18/21 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/21 09:58	05/18/21 11:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/21 09:58	05/18/21 11:25	1
Total TPH	<50.0	U	50.0	mg/Kg		05/18/21 09:58	05/18/21 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/18/21 09:58	05/18/21 11:25	1
o-Terphenyl	130		70 - 130	05/18/21 09:58	05/18/21 11:25	1

Lab Sample ID: LCS 880-3200/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3166****Prep Batch: 3200**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1314	*+	mg/Kg		131	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	122		70 - 130				
o-Terphenyl	136	S1+	70 - 130				

Lab Sample ID: LCSD 880-3200/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3166****Prep Batch: 3200**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
							Limits	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1028		mg/Kg		103	70 - 130	4
Diesel Range Organics (Over C10-C28)	1000	1282		mg/Kg		128	70 - 130	2

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits				
1-Chlorooctane	121		70 - 130				
o-Terphenyl	128		70 - 130				

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-678-1 MS****Matrix: Solid****Analysis Batch: 3166****Client Sample ID: FS01****Prep Type: Total/NA****Prep Batch: 3200**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	993.2		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	996	1244		mg/Kg		125	70 - 130		
Surrogate	%Recovery	MS Qualifier	MS Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: 890-678-1 MSD**Matrix: Solid****Analysis Batch: 3166****Client Sample ID: FS01****Prep Type: Total/NA****Prep Batch: 3200**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	981.7		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	996	1257		mg/Kg		126	70 - 130	1	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	110		70 - 130								

Lab Sample ID: MB 880-3201/1-A**Matrix: Solid****Analysis Batch: 3168****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3201**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/21 09:59	05/18/21 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/21 09:59	05/18/21 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/21 09:59	05/18/21 11:25	1
Total TPH	<50.0	U	50.0	mg/Kg		05/18/21 09:59	05/18/21 11:25	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/18/21 09:59	05/18/21 11:25	1
o-Terphenyl	110		70 - 130			05/18/21 09:59	05/18/21 11:25	1

Lab Sample ID: LCS 880-3201/2-A**Matrix: Solid****Analysis Batch: 3168****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3201**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	863.9		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1059		mg/Kg		106	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-3201/2-A****Matrix: Solid****Analysis Batch: 3168****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3201**

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
<i>o</i> -Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-3201/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3168****Prep Batch: 3201**

Analyte	Spike	LCSD	LCSD		%Rec.	RPD
	Added	Result	Qualifier	Unit	D	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	952.0		mg/Kg	95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1158		mg/Kg	116	70 - 130

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
<i>o</i> -Terphenyl	119		70 - 130

Lab Sample ID: 890-678-21 MS**Client Sample ID: FS21****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3168****Prep Batch: 3201**

Analyte	Sample	Sample	Spike	MS	MS		%Rec.
	Result	Qualifier	Added	Result	Qualifier	Unit	D
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	935.7		mg/Kg	94
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1110		mg/Kg	111

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
<i>o</i> -Terphenyl	99		70 - 130

Lab Sample ID: 890-678-21 MSD**Client Sample ID: FS21****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3168****Prep Batch: 3201**

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec.
	Result	Qualifier	Added	Result	Qualifier	Unit	D
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	928.3		mg/Kg	93
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1073		mg/Kg	108

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
<i>o</i> -Terphenyl	94		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-3210/1-A****Matrix: Solid****Analysis Batch: 3205****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3210**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/18/21 11:59	05/18/21 12:58	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/18/21 11:59	05/18/21 12:58	1	
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/18/21 11:59	05/18/21 12:58	1	
Total TPH	<50.0	U	50.0	mg/Kg	05/18/21 11:59	05/18/21 12:58	1	

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	112		70 - 130	05/18/21 11:59	05/18/21 12:58	1
<i>o</i> -Terphenyl	105		70 - 130	05/18/21 11:59	05/18/21 12:58	1

Lab Sample ID: LCS 880-3210/2-A**Matrix: Solid****Analysis Batch: 3205****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3210**

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits
	Added	Result						
Gasoline Range Organics (GRO)-C6-C10	1000	873.5		mg/Kg	87	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1084		mg/Kg	108	70 - 130		
Surrogate	LCS	LCS	Limits	Limits	Limits	Limits	RPD	RPD
	%Recovery	Qualifier						
1-Chlorooctane	102		70 - 130					
<i>o</i> -Terphenyl	98		70 - 130					

Lab Sample ID: LCSD 880-3210/3-A**Matrix: Solid****Analysis Batch: 3205****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 3210**

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD
	Added	Result								
Gasoline Range Organics (GRO)-C6-C10	1000	900.4		mg/Kg	90	70 - 130	3	20		
Diesel Range Organics (Over C10-C28)	1000	1097		mg/Kg	110	70 - 130	1	20		
Surrogate	LCSD	LCSD	Limits	Limits	Limits	Limits	RPD	RPD	RPD	RPD
	%Recovery	Qualifier								
1-Chlorooctane	105		70 - 130							
<i>o</i> -Terphenyl	97		70 - 130							

Lab Sample ID: 890-678-41 MS**Matrix: Solid****Analysis Batch: 3205****Client Sample ID: FS41****Prep Type: Total/NA****Prep Batch: 3210**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	965.1		mg/Kg	95	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1148		mg/Kg	114	70 - 130	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-678-41 MS****Matrix: Solid****Analysis Batch: 3205****Client Sample ID: FS41****Prep Type: Total/NA****Prep Batch: 3210**

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
<i>o</i> -Terphenyl	90		70 - 130

Lab Sample ID: 890-678-41 MSD**Matrix: Solid****Analysis Batch: 3205****Client Sample ID: FS41****Prep Type: Total/NA****Prep Batch: 3210**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	942.1		mg/Kg	92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1149		mg/Kg	114	70 - 130	0	20

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
<i>o</i> -Terphenyl	88		70 - 130

Lab Sample ID: MB 880-3219/1-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3220****Prep Batch: 3219**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier				Prepared	Analyzed	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 10:13		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 10:13		1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 10:13		1
Total TPH	<50.0	U	50.0	mg/Kg	05/19/21 08:36	05/19/21 10:13		1

Surrogate	MB	MB		Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits			
1-Chlorooctane	110		70 - 130	05/19/21 08:36	05/19/21 10:13	1
<i>o</i> -Terphenyl	129		70 - 130	05/19/21 08:36	05/19/21 10:13	1

Lab Sample ID: LCS 880-3219/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3220****Prep Batch: 3219**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	970.2		mg/Kg	97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1191		mg/Kg	119	70 - 130	

Surrogate	LCS	LCS		Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits			
1-Chlorooctane	105		70 - 130			
<i>o</i> -Terphenyl	103		70 - 130			

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCSD 880-3219/3-A****Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3220****Prep Batch: 3219**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	995.0		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1250		mg/Kg		125	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-678-11 MS**Client Sample ID: FS11****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3220****Prep Batch: 3219**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1161		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1481	F1	mg/Kg		149	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-678-11 MSD**Client Sample ID: FS11****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3220****Prep Batch: 3219**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1240		mg/Kg		124	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1582	F1	mg/Kg		159	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: MB 880-3222/1-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3224****Prep Batch: 3222**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/19/21 08:44	05/19/21 10:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/21 08:44	05/19/21 10:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/21 08:44	05/19/21 10:13	1
Total TPH	<50.0	U	50.0	mg/Kg		05/19/21 08:44	05/19/21 10:13	1

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-3222/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3224****Prep Batch: 3222**

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane			91		70 - 130	05/19/21 08:44	05/19/21 10:13	1
<i>o</i> -Terphenyl			106		70 - 130	05/19/21 08:44	05/19/21 10:13	1

Lab Sample ID: LCS 880-3222/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3224****Prep Batch: 3222**

Analyte	Spike	LCS	LCS	%Rec.				
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	904.4		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130	
Surrogate	LCS	LCS						
	%Recovery	Qualifier						
1-Chlorooctane	87		70 - 130					
<i>o</i> -Terphenyl	96		70 - 130					

Lab Sample ID: LCSD 880-3222/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3224****Prep Batch: 3222**

Analyte	Spike	LCSD	LCSD	%Rec.						
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	888.8		mg/Kg		89	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	1000	1109		mg/Kg		111	70 - 130	5	20	
Surrogate	LCSD	LCSD								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	91		70 - 130							
<i>o</i> -Terphenyl	101		70 - 130							

Lab Sample ID: 890-678-31 MS**Client Sample ID: FS31****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 3224****Prep Batch: 3222**

Analyte	Sample	Sample	Spike	MS	MS	%Rec.				
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	883.6		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1058		mg/Kg		106	70 - 130	
Surrogate	MS	MS								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	83		70 - 130							
<i>o</i> -Terphenyl	85		70 - 130							

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-678-31 MSD****Matrix: Solid****Analysis Batch: 3224****Client Sample ID: FS31****Prep Type: Total/NA****Prep Batch: 3222**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	866.6		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1057		mg/Kg		106	70 - 130	0	20
Surrogate											
MSD MSD %Recovery Qualifier Limits											
1-Chlorooctane		82		70 - 130							
o-Terphenyl		85		70 - 130							

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-3233/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 3253**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/19/21 16:36	1

Lab Sample ID: LCS 880-3233/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 3253**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	250	245.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-3233/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 3253**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-678-7 MS**Client Sample ID: FS07****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 3253**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	662	F1	250	869.7	F1	mg/Kg		83	90 - 110

Lab Sample ID: 890-678-7 MSD**Client Sample ID: FS07****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 3253**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloride	662	F1	250	870.2	F1	mg/Kg		83	90 - 110	0	20

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: 890-678-17 MS****Matrix: Solid****Analysis Batch: 3253**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier				90		
Chloride	383		249	606.1		mg/Kg			90	90 - 110	

Lab Sample ID: 890-678-17 MSD**Matrix: Solid****Analysis Batch: 3253**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				90		
Chloride	383		249	606.1		mg/Kg			90	90 - 110	0 20

Lab Sample ID: MB 880-3234/1-A**Matrix: Solid****Analysis Batch: 3256**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			05/20/21 12:32	1

Lab Sample ID: LCS 880-3234/2-A**Matrix: Solid****Analysis Batch: 3256**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Chloride	250	252.9		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-3234/3-A**Matrix: Solid****Analysis Batch: 3256**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Chloride	250	249.0		mg/Kg		100	90 - 110	2 20

Lab Sample ID: 890-678-27 MS**Matrix: Solid****Analysis Batch: 3256**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				1908	
Chloride	10200		249	14980	4	mg/Kg			90 - 110	

Lab Sample ID: 890-678-27 MSD**Matrix: Solid****Analysis Batch: 3256**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				1981	
Chloride	10200		249	15160	4	mg/Kg			90 - 110	1 20

Lab Sample ID: 890-678-37 MS**Matrix: Solid****Analysis Batch: 3256**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				1092	
Chloride	5480		249	8199	4	mg/Kg			90 - 110	

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: 890-678-37 MSD****Matrix: Solid****Analysis Batch: 3256****Client Sample ID: FS37****Prep Type: Soluble**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec.		
Chloride	5480		249	7972	4	mg/Kg	1001	90 - 110	3	20

Lab Sample ID: MB 880-3231/1-A**Client Sample ID: Method Blank****Prep Type: Soluble****Matrix: Solid****Analysis Batch: 3258**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			05/19/21 17:36	1

Lab Sample ID: LCS 880-3231/2-A**Client Sample ID: Lab Control Sample****Prep Type: Soluble****Matrix: Solid****Analysis Batch: 3258**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits	
	Added	Result	Qualifier					
Chloride	250	255.0		mg/Kg	102	90 - 110		

Lab Sample ID: LCSD 880-3231/3-A**Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble****Matrix: Solid****Analysis Batch: 3258**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Chloride	250	254.5		mg/Kg	102	90 - 110		0	20

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

GC VOA**Prep Batch: 3194**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Total/NA	Solid	5035	1
890-678-2	FS02	Total/NA	Solid	5035	2
MB 880-3194/5-A	Method Blank	Total/NA	Solid	5035	3
LCS 880-3194/1-A	Lab Control Sample	Total/NA	Solid	5035	4
LCSD 880-3194/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	5

Prep Batch: 3195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-3	FS03	Total/NA	Solid	5035	8
890-678-4	FS04	Total/NA	Solid	5035	9
890-678-5	FS05	Total/NA	Solid	5035	10
890-678-6	FS06	Total/NA	Solid	5035	11
890-678-7	FS07	Total/NA	Solid	5035	12
890-678-8	FS08	Total/NA	Solid	5035	13
890-678-9	FS09	Total/NA	Solid	5035	14
890-678-10	FS10	Total/NA	Solid	5035	
890-678-11	FS11	Total/NA	Solid	5035	
890-678-12	FS12	Total/NA	Solid	5035	
890-678-13	FS13	Total/NA	Solid	5035	
890-678-14	FS14	Total/NA	Solid	5035	
890-678-15	FS15	Total/NA	Solid	5035	
890-678-16	FS16	Total/NA	Solid	5035	
890-678-17	FS17	Total/NA	Solid	5035	
890-678-18	FS18	Total/NA	Solid	5035	
890-678-19	FS19	Total/NA	Solid	5035	
MB 880-3195/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3195/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3195/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-678-3 MS	FS03	Total/NA	Solid	5035	
890-678-3 MSD	FS03	Total/NA	Solid	5035	

Prep Batch: 3196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-20	FS20	Total/NA	Solid	5035	
890-678-21	FS21	Total/NA	Solid	5035	
890-678-22	FS22	Total/NA	Solid	5035	
890-678-23	FS23	Total/NA	Solid	5035	
890-678-24	FS24	Total/NA	Solid	5035	
890-678-25	FS25	Total/NA	Solid	5035	
890-678-26	FS26	Total/NA	Solid	5035	
890-678-27	FS27	Total/NA	Solid	5035	
890-678-28	FS28	Total/NA	Solid	5035	
890-678-29	FS29	Total/NA	Solid	5035	
890-678-30	FS30	Total/NA	Solid	5035	
890-678-31	FS31	Total/NA	Solid	5035	
890-678-32	FS32	Total/NA	Solid	5035	
890-678-33	FS33	Total/NA	Solid	5035	
890-678-34	FS34	Total/NA	Solid	5035	
890-678-35	FS35	Total/NA	Solid	5035	
890-678-36	FS36	Total/NA	Solid	5035	
890-678-37	FS37	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

GC VOA (Continued)**Prep Batch: 3196 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-38	FS38	Total/NA	Solid	5035	
890-678-39	FS39	Total/NA	Solid	5035	
MB 880-3196/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3196/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3196/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-678-20 MS	FS20	Total/NA	Solid	5035	
890-678-20 MSD	FS20	Total/NA	Solid	5035	

Analysis Batch: 3197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Total/NA	Solid	8021B	3194
890-678-2	FS02	Total/NA	Solid	8021B	3194
MB 880-3194/5-A	Method Blank	Total/NA	Solid	8021B	3194
LCS 880-3194/1-A	Lab Control Sample	Total/NA	Solid	8021B	3194
LCSD 880-3194/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3194

Analysis Batch: 3198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-20	FS20	Total/NA	Solid	8021B	3196
890-678-21	FS21	Total/NA	Solid	8021B	3196
890-678-22	FS22	Total/NA	Solid	8021B	3196
890-678-23	FS23	Total/NA	Solid	8021B	3196
890-678-24	FS24	Total/NA	Solid	8021B	3196
890-678-25	FS25	Total/NA	Solid	8021B	3196
890-678-26	FS26	Total/NA	Solid	8021B	3196
890-678-27	FS27	Total/NA	Solid	8021B	3196
890-678-28	FS28	Total/NA	Solid	8021B	3196
890-678-29	FS29	Total/NA	Solid	8021B	3196
890-678-30	FS30	Total/NA	Solid	8021B	3196
890-678-31	FS31	Total/NA	Solid	8021B	3196
890-678-32	FS32	Total/NA	Solid	8021B	3196
890-678-33	FS33	Total/NA	Solid	8021B	3196
890-678-34	FS34	Total/NA	Solid	8021B	3196
890-678-35	FS35	Total/NA	Solid	8021B	3196
890-678-36	FS36	Total/NA	Solid	8021B	3196
890-678-37	FS37	Total/NA	Solid	8021B	3196
890-678-38	FS38	Total/NA	Solid	8021B	3196
890-678-39	FS39	Total/NA	Solid	8021B	3196
MB 880-3196/5-A	Method Blank	Total/NA	Solid	8021B	3196
LCS 880-3196/1-A	Lab Control Sample	Total/NA	Solid	8021B	3196
LCSD 880-3196/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3196
890-678-20 MS	FS20	Total/NA	Solid	8021B	3196
890-678-20 MSD	FS20	Total/NA	Solid	8021B	3196

Analysis Batch: 3199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-3	FS03	Total/NA	Solid	8021B	3195
890-678-4	FS04	Total/NA	Solid	8021B	3195
890-678-5	FS05	Total/NA	Solid	8021B	3195
890-678-6	FS06	Total/NA	Solid	8021B	3195
890-678-7	FS07	Total/NA	Solid	8021B	3195

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

GC VOA (Continued)**Analysis Batch: 3199 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-8	FS08	Total/NA	Solid	8021B	3195
890-678-9	FS09	Total/NA	Solid	8021B	3195
890-678-10	FS10	Total/NA	Solid	8021B	3195
890-678-11	FS11	Total/NA	Solid	8021B	3195
890-678-12	FS12	Total/NA	Solid	8021B	3195
890-678-13	FS13	Total/NA	Solid	8021B	3195
890-678-14	FS14	Total/NA	Solid	8021B	3195
890-678-15	FS15	Total/NA	Solid	8021B	3195
890-678-16	FS16	Total/NA	Solid	8021B	3195
890-678-17	FS17	Total/NA	Solid	8021B	3195
890-678-18	FS18	Total/NA	Solid	8021B	3195
890-678-19	FS19	Total/NA	Solid	8021B	3195
MB 880-3195/5-A	Method Blank	Total/NA	Solid	8021B	3195
LCS 880-3195/1-A	Lab Control Sample	Total/NA	Solid	8021B	3195
LCSD 880-3195/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3195
890-678-3 MS	FS03	Total/NA	Solid	8021B	3195
890-678-3 MSD	FS03	Total/NA	Solid	8021B	3195

Prep Batch: 3223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-40	FS40	Total/NA	Solid	5035	
890-678-41	FS41	Total/NA	Solid	5035	
MB 880-3223/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3223/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3223/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-40	FS40	Total/NA	Solid	8021B	3223
890-678-41	FS41	Total/NA	Solid	8021B	3223
MB 880-3223/5-A	Method Blank	Total/NA	Solid	8021B	3223
LCS 880-3223/1-A	Lab Control Sample	Total/NA	Solid	8021B	3223
LCSD 880-3223/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3223

GC Semi VOA**Analysis Batch: 3166**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Total/NA	Solid	8015B NM	3200
890-678-2	FS02	Total/NA	Solid	8015B NM	3200
890-678-3	FS03	Total/NA	Solid	8015B NM	3200
890-678-4	FS04	Total/NA	Solid	8015B NM	3200
890-678-5	FS05	Total/NA	Solid	8015B NM	3200
890-678-6	FS06	Total/NA	Solid	8015B NM	3200
890-678-7	FS07	Total/NA	Solid	8015B NM	3200
890-678-9	FS09	Total/NA	Solid	8015B NM	3200
890-678-10	FS10	Total/NA	Solid	8015B NM	3200
MB 880-3200/1-A	Method Blank	Total/NA	Solid	8015B NM	3200
LCS 880-3200/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3200
LCSD 880-3200/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3200
890-678-1 MS	FS01	Total/NA	Solid	8015B NM	3200

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

GC Semi VOA (Continued)**Analysis Batch: 3166 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1 MSD	FS01	Total/NA	Solid	8015B NM	3200

Analysis Batch: 3168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-21	FS21	Total/NA	Solid	8015B NM	3201
890-678-22	FS22	Total/NA	Solid	8015B NM	3201
890-678-23	FS23	Total/NA	Solid	8015B NM	3201
890-678-24	FS24	Total/NA	Solid	8015B NM	3201
890-678-25	FS25	Total/NA	Solid	8015B NM	3201
890-678-26	FS26	Total/NA	Solid	8015B NM	3201
890-678-27	FS27	Total/NA	Solid	8015B NM	3201
890-678-28	FS28	Total/NA	Solid	8015B NM	3201
890-678-29	FS29	Total/NA	Solid	8015B NM	3201
890-678-30	FS30	Total/NA	Solid	8015B NM	3201
MB 880-3201/1-A	Method Blank	Total/NA	Solid	8015B NM	3201
LCS 880-3201/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3201
LCSD 880-3201/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3201
890-678-21 MS	FS21	Total/NA	Solid	8015B NM	3201
890-678-21 MSD	FS21	Total/NA	Solid	8015B NM	3201

Prep Batch: 3200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Total/NA	Solid	8015NM Prep	
890-678-2	FS02	Total/NA	Solid	8015NM Prep	
890-678-3	FS03	Total/NA	Solid	8015NM Prep	
890-678-4	FS04	Total/NA	Solid	8015NM Prep	
890-678-5	FS05	Total/NA	Solid	8015NM Prep	
890-678-6	FS06	Total/NA	Solid	8015NM Prep	
890-678-7	FS07	Total/NA	Solid	8015NM Prep	
890-678-9	FS09	Total/NA	Solid	8015NM Prep	
890-678-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-3200/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3200/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3200/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-678-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 3201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-21	FS21	Total/NA	Solid	8015NM Prep	
890-678-22	FS22	Total/NA	Solid	8015NM Prep	
890-678-23	FS23	Total/NA	Solid	8015NM Prep	
890-678-24	FS24	Total/NA	Solid	8015NM Prep	
890-678-25	FS25	Total/NA	Solid	8015NM Prep	
890-678-26	FS26	Total/NA	Solid	8015NM Prep	
890-678-27	FS27	Total/NA	Solid	8015NM Prep	
890-678-28	FS28	Total/NA	Solid	8015NM Prep	
890-678-29	FS29	Total/NA	Solid	8015NM Prep	
890-678-30	FS30	Total/NA	Solid	8015NM Prep	
MB 880-3201/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3201/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

GC Semi VOA (Continued)**Prep Batch: 3201 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-3201/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-21 MS	FS21	Total/NA	Solid	8015NM Prep	
890-678-21 MSD	FS21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-41	FS41	Total/NA	Solid	8015B NM	3210
MB 880-3210/1-A	Method Blank	Total/NA	Solid	8015B NM	3210
LCS 880-3210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3210
LCSD 880-3210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3210
890-678-41 MS	FS41	Total/NA	Solid	8015B NM	3210
890-678-41 MSD	FS41	Total/NA	Solid	8015B NM	3210

Prep Batch: 3210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-41	FS41	Total/NA	Solid	8015NM Prep	
MB 880-3210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-41 MS	FS41	Total/NA	Solid	8015NM Prep	
890-678-41 MSD	FS41	Total/NA	Solid	8015NM Prep	

Prep Batch: 3219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-8	FS08	Total/NA	Solid	8015NM Prep	
890-678-11	FS11	Total/NA	Solid	8015NM Prep	
890-678-12	FS12	Total/NA	Solid	8015NM Prep	
890-678-13	FS13	Total/NA	Solid	8015NM Prep	
890-678-14	FS14	Total/NA	Solid	8015NM Prep	
890-678-15	FS15	Total/NA	Solid	8015NM Prep	
890-678-16	FS16	Total/NA	Solid	8015NM Prep	
890-678-17	FS17	Total/NA	Solid	8015NM Prep	
890-678-18	FS18	Total/NA	Solid	8015NM Prep	
890-678-19	FS19	Total/NA	Solid	8015NM Prep	
890-678-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-3219/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3219/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-11 MS	FS11	Total/NA	Solid	8015NM Prep	
890-678-11 MSD	FS11	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-8	FS08	Total/NA	Solid	8015B NM	3219
890-678-11	FS11	Total/NA	Solid	8015B NM	3219
890-678-12	FS12	Total/NA	Solid	8015B NM	3219
890-678-13	FS13	Total/NA	Solid	8015B NM	3219
890-678-14	FS14	Total/NA	Solid	8015B NM	3219
890-678-15	FS15	Total/NA	Solid	8015B NM	3219
890-678-16	FS16	Total/NA	Solid	8015B NM	3219
890-678-17	FS17	Total/NA	Solid	8015B NM	3219

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

GC Semi VOA (Continued)**Analysis Batch: 3220 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-18	FS18	Total/NA	Solid	8015B NM	3219
890-678-19	FS19	Total/NA	Solid	8015B NM	3219
890-678-20	FS20	Total/NA	Solid	8015B NM	3219
MB 880-3219/1-A	Method Blank	Total/NA	Solid	8015B NM	3219
LCS 880-3219/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3219
LCSD 880-3219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3219
890-678-11 MS	FS11	Total/NA	Solid	8015B NM	3219
890-678-11 MSD	FS11	Total/NA	Solid	8015B NM	3219

Prep Batch: 3222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-31	FS31	Total/NA	Solid	8015NM Prep	10
890-678-32	FS32	Total/NA	Solid	8015NM Prep	11
890-678-33	FS33	Total/NA	Solid	8015NM Prep	12
890-678-34	FS34	Total/NA	Solid	8015NM Prep	13
890-678-35	FS35	Total/NA	Solid	8015NM Prep	14
890-678-36	FS36	Total/NA	Solid	8015NM Prep	
890-678-37	FS37	Total/NA	Solid	8015NM Prep	
890-678-38	FS38	Total/NA	Solid	8015NM Prep	
890-678-39	FS39	Total/NA	Solid	8015NM Prep	
890-678-40	FS40	Total/NA	Solid	8015NM Prep	
MB 880-3222/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3222/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-678-31 MS	FS31	Total/NA	Solid	8015NM Prep	
890-678-31 MSD	FS31	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-31	FS31	Total/NA	Solid	8015B NM	3222
890-678-32	FS32	Total/NA	Solid	8015B NM	3222
890-678-33	FS33	Total/NA	Solid	8015B NM	3222
890-678-34	FS34	Total/NA	Solid	8015B NM	3222
890-678-35	FS35	Total/NA	Solid	8015B NM	3222
890-678-36	FS36	Total/NA	Solid	8015B NM	3222
890-678-37	FS37	Total/NA	Solid	8015B NM	3222
890-678-38	FS38	Total/NA	Solid	8015B NM	3222
890-678-39	FS39	Total/NA	Solid	8015B NM	3222
890-678-40	FS40	Total/NA	Solid	8015B NM	3222
MB 880-3222/1-A	Method Blank	Total/NA	Solid	8015B NM	3222
LCS 880-3222/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3222
LCSD 880-3222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3222
890-678-31 MS	FS31	Total/NA	Solid	8015B NM	3222
890-678-31 MSD	FS31	Total/NA	Solid	8015B NM	3222

HPLC/IC**Leach Batch: 3231**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Soluble	Solid	DI Leach	
890-678-2	FS02	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

HPLC/IC (Continued)**Leach Batch: 3231 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-3	FS03	Soluble	Solid	DI Leach	1
890-678-4	FS04	Soluble	Solid	DI Leach	2
890-678-5	FS05	Soluble	Solid	DI Leach	3
890-678-6	FS06	Soluble	Solid	DI Leach	4
MB 880-3231/1-A	Method Blank	Soluble	Solid	DI Leach	5
LCS 880-3231/2-A	Lab Control Sample	Soluble	Solid	DI Leach	6
LCSD 880-3231/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	7

Leach Batch: 3233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-7	FS07	Soluble	Solid	DI Leach	9
890-678-8	FS08	Soluble	Solid	DI Leach	10
890-678-9	FS09	Soluble	Solid	DI Leach	11
890-678-10	FS10	Soluble	Solid	DI Leach	12
890-678-11	FS11	Soluble	Solid	DI Leach	13
890-678-12	FS12	Soluble	Solid	DI Leach	14
890-678-13	FS13	Soluble	Solid	DI Leach	
890-678-14	FS14	Soluble	Solid	DI Leach	
890-678-15	FS15	Soluble	Solid	DI Leach	
890-678-16	FS16	Soluble	Solid	DI Leach	
890-678-17	FS17	Soluble	Solid	DI Leach	
890-678-18	FS18	Soluble	Solid	DI Leach	
890-678-19	FS19	Soluble	Solid	DI Leach	
890-678-20	FS20	Soluble	Solid	DI Leach	
890-678-21	FS21	Soluble	Solid	DI Leach	
890-678-22	FS22	Soluble	Solid	DI Leach	
890-678-23	FS23	Soluble	Solid	DI Leach	
890-678-24	FS24	Soluble	Solid	DI Leach	
890-678-25	FS25	Soluble	Solid	DI Leach	
890-678-26	FS26	Soluble	Solid	DI Leach	
MB 880-3233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-678-7 MS	FS07	Soluble	Solid	DI Leach	
890-678-7 MSD	FS07	Soluble	Solid	DI Leach	
890-678-17 MS	FS17	Soluble	Solid	DI Leach	
890-678-17 MSD	FS17	Soluble	Solid	DI Leach	

Leach Batch: 3234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-27	FS27	Soluble	Solid	DI Leach	1
890-678-28	FS28	Soluble	Solid	DI Leach	2
890-678-29	FS29	Soluble	Solid	DI Leach	3
890-678-30	FS30	Soluble	Solid	DI Leach	4
890-678-31	FS31	Soluble	Solid	DI Leach	5
890-678-32	FS32	Soluble	Solid	DI Leach	6
890-678-33	FS33	Soluble	Solid	DI Leach	7
890-678-34	FS34	Soluble	Solid	DI Leach	8
890-678-35	FS35	Soluble	Solid	DI Leach	9
890-678-36	FS36	Soluble	Solid	DI Leach	10
890-678-37	FS37	Soluble	Solid	DI Leach	11

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

HPLC/IC (Continued)**Leach Batch: 3234 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-38	FS38	Soluble	Solid	DI Leach	
890-678-39	FS39	Soluble	Solid	DI Leach	
890-678-40	FS40	Soluble	Solid	DI Leach	
890-678-41	FS41	Soluble	Solid	DI Leach	
MB 880-3234/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3234/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-678-27 MS	FS27	Soluble	Solid	DI Leach	
890-678-27 MSD	FS27	Soluble	Solid	DI Leach	
890-678-37 MS	FS37	Soluble	Solid	DI Leach	
890-678-37 MSD	FS37	Soluble	Solid	DI Leach	

Analysis Batch: 3253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-7	FS07	Soluble	Solid	300.0	3233
890-678-8	FS08	Soluble	Solid	300.0	3233
890-678-9	FS09	Soluble	Solid	300.0	3233
890-678-10	FS10	Soluble	Solid	300.0	3233
890-678-11	FS11	Soluble	Solid	300.0	3233
890-678-12	FS12	Soluble	Solid	300.0	3233
890-678-13	FS13	Soluble	Solid	300.0	3233
890-678-14	FS14	Soluble	Solid	300.0	3233
890-678-15	FS15	Soluble	Solid	300.0	3233
890-678-16	FS16	Soluble	Solid	300.0	3233
890-678-17	FS17	Soluble	Solid	300.0	3233
890-678-18	FS18	Soluble	Solid	300.0	3233
890-678-19	FS19	Soluble	Solid	300.0	3233
890-678-20	FS20	Soluble	Solid	300.0	3233
890-678-21	FS21	Soluble	Solid	300.0	3233
890-678-22	FS22	Soluble	Solid	300.0	3233
890-678-23	FS23	Soluble	Solid	300.0	3233
890-678-24	FS24	Soluble	Solid	300.0	3233
890-678-25	FS25	Soluble	Solid	300.0	3233
890-678-26	FS26	Soluble	Solid	300.0	3233
MB 880-3233/1-A	Method Blank	Soluble	Solid	300.0	3233
LCS 880-3233/2-A	Lab Control Sample	Soluble	Solid	300.0	3233
LCSD 880-3233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3233
890-678-7 MS	FS07	Soluble	Solid	300.0	3233
890-678-7 MSD	FS07	Soluble	Solid	300.0	3233
890-678-17 MS	FS17	Soluble	Solid	300.0	3233
890-678-17 MSD	FS17	Soluble	Solid	300.0	3233

Analysis Batch: 3256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-27	FS27	Soluble	Solid	300.0	3234
890-678-28	FS28	Soluble	Solid	300.0	3234
890-678-29	FS29	Soluble	Solid	300.0	3234
890-678-30	FS30	Soluble	Solid	300.0	3234
890-678-31	FS31	Soluble	Solid	300.0	3234
890-678-32	FS32	Soluble	Solid	300.0	3234
890-678-33	FS33	Soluble	Solid	300.0	3234

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

HPLC/IC (Continued)**Analysis Batch: 3256 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-34	FS34	Soluble	Solid	300.0	3234
890-678-35	FS35	Soluble	Solid	300.0	3234
890-678-36	FS36	Soluble	Solid	300.0	3234
890-678-37	FS37	Soluble	Solid	300.0	3234
890-678-38	FS38	Soluble	Solid	300.0	3234
890-678-39	FS39	Soluble	Solid	300.0	3234
890-678-40	FS40	Soluble	Solid	300.0	3234
890-678-41	FS41	Soluble	Solid	300.0	3234
MB 880-3234/1-A	Method Blank	Soluble	Solid	300.0	3234
LCS 880-3234/2-A	Lab Control Sample	Soluble	Solid	300.0	3234
LCSD 880-3234/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3234
890-678-27 MS	FS27	Soluble	Solid	300.0	3234
890-678-27 MSD	FS27	Soluble	Solid	300.0	3234
890-678-37 MS	FS37	Soluble	Solid	300.0	3234
890-678-37 MSD	FS37	Soluble	Solid	300.0	3234

Analysis Batch: 3258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-678-1	FS01	Soluble	Solid	300.0	3231
890-678-2	FS02	Soluble	Solid	300.0	3231
890-678-3	FS03	Soluble	Solid	300.0	3231
890-678-4	FS04	Soluble	Solid	300.0	3231
890-678-5	FS05	Soluble	Solid	300.0	3231
890-678-6	FS06	Soluble	Solid	300.0	3231
MB 880-3231/1-A	Method Blank	Soluble	Solid	300.0	3231
LCS 880-3231/2-A	Lab Control Sample	Soluble	Solid	300.0	3231
LCSD 880-3231/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3231

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS01

Date Collected: 05/13/21 14:50
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3194	05/18/21 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3197	05/18/21 16:25	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 13:08	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			3258	05/19/21 19:46	SC	XEN MID

Client Sample ID: FS02

Date Collected: 05/13/21 14:52
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3194	05/18/21 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3197	05/18/21 16:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		1			3258	05/19/21 19:51	SC	XEN MID

Client Sample ID: FS03

Date Collected: 05/13/21 14:54
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 14:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		10			3258	05/19/21 19:56	SC	XEN MID

Client Sample ID: FS04

Date Collected: 05/13/21 14:56
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 14:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		5			3258	05/19/21 20:01	SC	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS05

Date Collected: 05/13/21 15:00
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 15:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		5			3258	05/19/21 20:07	SC	XEN MID

Client Sample ID: FS06

Date Collected: 05/13/21 15:02
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 15:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		5			3258	05/19/21 20:12	SC	XEN MID

Client Sample ID: FS07

Date Collected: 05/13/21 15:04
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 15:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 16:51	SC	XEN MID

Client Sample ID: FS08

Date Collected: 05/13/21 15:06
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 16:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		5			3253	05/19/21 19:13	SC	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS09

Date Collected: 05/13/21 15:13
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 16:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		5			3253	05/19/21 17:11	SC	XEN MID

Client Sample ID: FS10

Date Collected: 05/13/21 15:15
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 16:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3200	05/18/21 09:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3166	05/18/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		5			3253	05/19/21 17:16	SC	XEN MID

Client Sample ID: FS11

Date Collected: 05/14/21 09:10
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 17:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 11:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		5			3253	05/19/21 17:21	SC	XEN MID

Client Sample ID: FS12

Date Collected: 05/14/21 09:12
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 18:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 17:38	SC	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS13

Date Collected: 05/14/21 09:14
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 19:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 13:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 17:43	SC	XEN MID

Client Sample ID: FS14

Date Collected: 05/14/21 09:16
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 19:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 17:48	SC	XEN MID

Client Sample ID: FS15

Date Collected: 05/14/21 09:18
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 19:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 17:53	SC	XEN MID

Client Sample ID: FS16

Date Collected: 05/14/21 09:20
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 20:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 17:58	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS17

Date Collected: 05/14/21 09:22
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 20:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 18:03	SC	XEN MID

Client Sample ID: FS18

Date Collected: 05/14/21 09:24
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 20:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 18:18	SC	XEN MID

Client Sample ID: FS19

Date Collected: 05/14/21 09:26
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3195	05/18/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3199	05/18/21 21:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		1			3253	05/19/21 18:23	SC	XEN MID

Client Sample ID: FS20

Date Collected: 05/14/21 09:37
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 14:40	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3219	05/19/21 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 18:38	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS21

Date Collected: 05/14/21 09:39
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 15:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 13:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 18:43	SC	XEN MID

Client Sample ID: FS22

Date Collected: 05/14/21 09:41
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 15:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 18:48	SC	XEN MID

Client Sample ID: FS23

Date Collected: 05/14/21 09:43
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 15:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 18:53	SC	XEN MID

Client Sample ID: FS24

Date Collected: 05/14/21 09:45
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 16:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 18:58	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS25

Date Collected: 05/14/21 09:47
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 16:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		10			3253	05/19/21 19:03	SC	XEN MID

Client Sample ID: FS26

Date Collected: 05/14/21 09:49
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 17:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3233	05/19/21 09:35	SC	XEN MID
Soluble	Analysis	300.0		5			3253	05/19/21 19:08	SC	XEN MID

Client Sample ID: FS27

Date Collected: 05/14/21 10:19
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 17:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 12:48	CH	XEN MID

Client Sample ID: FS28

Date Collected: 05/14/21 10:21
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 18:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 13:04	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS29

Date Collected: 05/14/21 10:23
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 18:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 13:09	CH	XEN MID

Client Sample ID: FS30

Date Collected: 05/14/21 10:32
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 20:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3201	05/18/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3168	05/18/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 13:14	CH	XEN MID

Client Sample ID: FS31

Date Collected: 05/14/21 10:34
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 20:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 11:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 13:19	CH	XEN MID

Client Sample ID: FS32

Date Collected: 05/14/21 10:36
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 21:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 12:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 13:35	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS33

Date Collected: 05/14/21 10:38
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 21:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 13:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 13:40	CH	XEN MID

Client Sample ID: FS34

Date Collected: 05/14/21 10:40
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 21:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 13:45	CH	XEN MID

Client Sample ID: FS35

Date Collected: 05/14/21 10:42
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 22:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 13:50	CH	XEN MID

Client Sample ID: FS36

Date Collected: 05/14/21 10:44
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 22:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 13:55	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS37

Date Collected: 05/14/21 10:46
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 23:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 14:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 14:00	CH	XEN MID

Client Sample ID: FS38

Date Collected: 05/14/21 10:48
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/18/21 23:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 14:16	CH	XEN MID

Client Sample ID: FS39

Date Collected: 05/14/21 10:50
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3196	05/18/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3198	05/19/21 00:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 14:21	CH	XEN MID

Client Sample ID: FS40

Date Collected: 05/14/21 10:52
 Date Received: 05/17/21 10:09

Lab Sample ID: 890-678-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3223	05/19/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3232	05/19/21 19:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3222	05/19/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3224	05/19/21 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		20			3256	05/20/21 14:37	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

Client Sample ID: FS41**Lab Sample ID: 890-678-41**

Matrix: Solid

Date Collected: 05/14/21 10:54
 Date Received: 05/17/21 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	3223	05/19/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3232	05/19/21 19:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3210	05/18/21 11:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3205	05/18/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3234	05/19/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		10			3256	05/20/21 14:42	CH	XEN MID

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-678-1

Project/Site: Muy Wayno Frac Pond-Big D

SDG: 314031190

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1
 SDG: 314031190

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: Muy Wayno Frac Pond-Big D

Job ID: 890-678-1

SDG: 314031190

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-678-1	FS01	Solid	05/13/21 14:50	05/17/21 10:09	- 0.5
890-678-2	FS02	Solid	05/13/21 14:52	05/17/21 10:09	- 0.5
890-678-3	FS03	Solid	05/13/21 14:54	05/17/21 10:09	- 0.5
890-678-4	FS04	Solid	05/13/21 14:56	05/17/21 10:09	- 0.5
890-678-5	FS05	Solid	05/13/21 15:00	05/17/21 10:09	- 0.5
890-678-6	FS06	Solid	05/13/21 15:02	05/17/21 10:09	- 0.5
890-678-7	FS07	Solid	05/13/21 15:04	05/17/21 10:09	- 0.5
890-678-8	FS08	Solid	05/13/21 15:06	05/17/21 10:09	- 0.5
890-678-9	FS09	Solid	05/13/21 15:13	05/17/21 10:09	- 0.5
890-678-10	FS10	Solid	05/13/21 15:15	05/17/21 10:09	- 0.5
890-678-11	FS11	Solid	05/14/21 09:10	05/17/21 10:09	- 0.5
890-678-12	FS12	Solid	05/14/21 09:12	05/17/21 10:09	- 0.5
890-678-13	FS13	Solid	05/14/21 09:14	05/17/21 10:09	- 0.5
890-678-14	FS14	Solid	05/14/21 09:16	05/17/21 10:09	- 0.5
890-678-15	FS15	Solid	05/14/21 09:18	05/17/21 10:09	- 0.5
890-678-16	FS16	Solid	05/14/21 09:20	05/17/21 10:09	- 0.5
890-678-17	FS17	Solid	05/14/21 09:22	05/17/21 10:09	- 0.5
890-678-18	FS18	Solid	05/14/21 09:24	05/17/21 10:09	- 0.5
890-678-19	FS19	Solid	05/14/21 09:26	05/17/21 10:09	- 0.5
890-678-20	FS20	Solid	05/14/21 09:37	05/17/21 10:09	- 0.5
890-678-21	FS21	Solid	05/14/21 09:39	05/17/21 10:09	- 0.5
890-678-22	FS22	Solid	05/14/21 09:41	05/17/21 10:09	- 0.5
890-678-23	FS23	Solid	05/14/21 09:43	05/17/21 10:09	- 0.5
890-678-24	FS24	Solid	05/14/21 09:45	05/17/21 10:09	- 0.5
890-678-25	FS25	Solid	05/14/21 09:47	05/17/21 10:09	- 0.5
890-678-26	FS26	Solid	05/14/21 09:49	05/17/21 10:09	- 0.5
890-678-27	FS27	Solid	05/14/21 10:19	05/17/21 10:09	- 0.5
890-678-28	FS28	Solid	05/14/21 10:21	05/17/21 10:09	- 0.5
890-678-29	FS29	Solid	05/14/21 10:23	05/17/21 10:09	- 0.5
890-678-30	FS30	Solid	05/14/21 10:32	05/17/21 10:09	- 0.5
890-678-31	FS31	Solid	05/14/21 10:34	05/17/21 10:09	- 0.5
890-678-32	FS32	Solid	05/14/21 10:36	05/17/21 10:09	- 0.5
890-678-33	FS33	Solid	05/14/21 10:38	05/17/21 10:09	- 0.5
890-678-34	FS34	Solid	05/14/21 10:40	05/17/21 10:09	- 0.5
890-678-35	FS35	Solid	05/14/21 10:42	05/17/21 10:09	- 1
890-678-36	FS36	Solid	05/14/21 10:44	05/17/21 10:09	- 0.5
890-678-37	FS37	Solid	05/14/21 10:46	05/17/21 10:09	- 1
890-678-38	FS38	Solid	05/14/21 10:48	05/17/21 10:09	- 0.5
890-678-39	FS39	Solid	05/14/21 10:50	05/17/21 10:09	- 1
890-678-40	FS40	Solid	05/14/21 10:52	05/17/21 10:09	- 0.5
890-678-41	FS41	Solid	05/14/21 10:54	05/17/21 10:09	- 0.5

Eurofins Xenco, Carlsbad



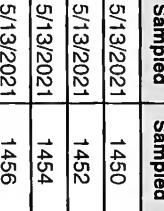
Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432)-704-5440 El Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000
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1 of 5

		Work Order Comments									
		Program: UST/RST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>									
		State or Project:									
		Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> STJU/JST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>									
		Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____									
Project Manager:	Katei Jennings	Billed to: (if different)	Todd Moore								
Company Name:	WSP USA Inc.	Company Name:	Big D Companies								
Address:	3300 North A Street	Address:	4501 E Highway 80								
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Midland, Texas 79706								
Phone:	432.236.3849	Email:	luis.delval@wsp.com ; katei.jennings@wsp.com								

ANALYSIS REQUEST												Work Order Notes
Project Name:	May Wayno Frac Pond-Big D			Turn Around								AFE's:
Project Number:	31403190			Routine								DD.2017.01917.CMP.01
P.O. Number:				Rush:								DD.2017.01911.CMP.01
Sampler's Name:	Luis Del Val			Due Date:								DD.2017.01912.CMP.01
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID: 	Number of Containers								DD.2017.01901.CMP.01
Temperature (°C):	2.16 / 2.4			TPH (EPA 8015)								DD.2017.01905.CMP.01
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			BTEX (EPA 0=8021)								NRM2024756871
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A	Correction Factor: -0.2	Chloride (EPA 300.0)								NRM2028241966
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A	Total Containers: _____									NAPP2102239584
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth								Sample Comments
FS01	S	5/13/2021	1450	0.5'	1	X	X	X				PLEASE CC INVOICE TO: KALEI JENNINGS Incident #S: NRM2024756871
FS02	S	5/13/2021	1452	0.5'	1	X	X	X				
FS03	S	5/13/2021	1454	0.5'	1	X	X	X				
FS04	S	5/13/2021	1456	0.5'	1	X	X	X				
FS05	S	5/13/2021	1500	0.5'	1	X	X	X				
FS06	S	5/13/2021	1502	0.5'	1	X	X	X				
FS07	S	5/13/2021	1504	0.5'	1	X	X	X				
FS08	S	5/13/2021	1506	0.5'	1	X	X	X				
FS09	S	5/13/2021	1513	0.5'	1	X	X	X				
FS10	S	5/13/2021	1515	0.5'	1	X	X	X				
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U												1631 / 245.1 / 7470 / 7471 : Hg
Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.												
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	6						
1		6/17/21 1004										
3												
5												



Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Page 2 of 5

Project Manager:	Katei Jennings	Bill to: (if different)	Todd Moore
Company Name:	WSP USA Inc.	Company Name:	Big D Companies
Address:	3300 North A Street	Address:	4501 E Highway 80
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Midland, Texas 79706
Phone:	432.236.3849	Email:	luis.delval@wsp.com ; katei.jennings@wsp.com

ANALYSIS REQUEST						Work Order Notes
SAMPLE RECEIPT						AFE's:
Temperature (°C):						DD.2017.01917.CMP.01
Received Intact:						DD.2017.01911.CMP.01
Cooler Custody Seals:						DD.2017.01912.CMP.01
Sample Custody Seals:						DD.2017.01905.CMP.01
Temp Blank:						DD.2017.01901.CMP.01
Yes No						DD.2017.01909.CMP.01
Water:						TAT starts the day received by the lab, if received by 4:30pm
Rush:						
Due Date:						
Thermometer ID:						
FQ						
Correction Factor:						
N/A						
Total Containers:						
Number of Containers						
TPH (EPA 8015)						
BTEX (EPA 0=8021)						
Chloride (EPA 300.0)						

SAMPLE IDENTIFICATION						Sample Comments
Matrix						
Sampled						
Date Sampled						
Time Sampled						
Depth						
FS11						PLEASE CC INVOICE TO:
S						KATEI JENNINGS
5/14/2021						Incident #'s:
910						NRM2024756871
0.5'						NRM2028241966
1						NAPP2102239584
X						NAPP2102626563
FS12						
S						
5/14/2021						
912						
0.5'						
1						
X						
FS13						
S						
5/14/2021						
914						
0.5'						
1						
X						
FS14						
S						
5/14/2021						
916						
0.5'						
1						
X						
FS15						
S						
5/14/2021						
918						
0.5'						
1						
X						
FS16						
S						
5/14/2021						
920						
0.5'						
1						
X						
FS17						
S						
5/14/2021						
922						
0.5'						
1						
X						
FS18						
S						
5/14/2021						
924						
0.5'						
1						
X						
FS19						
S						
5/14/2021						
926						
0.5'						
1						
X						
FS20						
S						
5/14/2021						
937						
0.5'						
1						
X						

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

1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature) Joe Cuffo Received by: (Signature) Joe Cuffo Date/Time 5.17.21 10:00 Relinquished by: (Signature) Received by: (Signature) Date/Time

Joe Cuffo Joe Cuffo 5



Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432)-704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575)-392-7550 Phoenix, AZ (480)-355-0900 Atlanta, GA (770)-449-8800 Tampa, FL (813)-620-2000
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3 of 5

Project Manager:		Kalei Jennings	Bill to: (if different)		Todd Moore	Work Order Comments	
Company Name:		WSP USA Inc.	Company Name:		Big D Companies	<input type="checkbox"/> UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
Address:		3300 North A Street	Address:		4501 E Highway 80	<input type="checkbox"/> ST/JUST <input type="checkbox"/> RRP <input type="checkbox"/> vel IV <input type="checkbox"/>	
City, State ZIP:		Midland, TX 79705	City, State ZIP:		Midland, Texas 79706	<input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	
Phone:		432.236.3849	Email:		luis.delval@wsp.com ; kalei.jennings@wsp.com		

SAMPLE RECEIPT						ANALYSIS REQUEST		Work Order Notes		
Project Name:	Muy Wayno Frac Pond-Big D	Turn Around	Temp Blank:	Yes	No	Wet Log:	Yes	No	AFE's:	
Project Number:	31403190	Routine	Rush:					DD.2017.01917.CMP.01		
P.O. Number:								DD.2017.01911.CMP.01		
Sampler's Name:	Luis Del Val							DD.2017.01912.CMP.01		
Cooler Custody Seals:	Yes	No	N/A					DD.2017.01901.CMP.01		
Sample Custody Seals:	Yes	No	N/A					DD.2017.01905.CMP.01		
						Total Containers:			TAT starts the day received by the lab, if received by 4:30pm	

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Sample Comments	
FS21	S	5/14/2021	939	0.5'	1	X X X X	PLEASE CC INVOICE TO: KALEI JENNINGS Incident #S: NRM2024756871	
FS22	S	5/14/2021	941	0.5'	1	X X X X	NRM2028241966	
FS23	S	5/14/2021	943	0.5'	1	X X X X	NAPP2102239584	
FS24	S	5/14/2021	945	0.5'	1	X X X X	NAPP2102626563	
FS25	S	5/14/2021	947	0.5'	1	X X X X		
FS26	S	5/14/2021	949	0.5'	1	X X X X		
FS27	S	5/14/2021	1019	0.5'	1	X X X X		
FS28	S	5/14/2021	1021	0.5'	1	X X X X		
FS29	S	5/14/2021	1023	0.5'	1	X X X X		
FS30	S	5/14/2021	1032	0.5'	1	X X X X		

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5-17-21 1009			
3		4			
5		6			



Chain of Custody

Work Order No: _____

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
www.xenco.com

4 of 5

Project Manager:	Kalei Jennings	Bill to: (if different)	Todd Moore
Company Name:	WSP USA Inc.	Company Name:	Big D Companies
Address:	3300 North A Street	Address:	4501 E Highway 80
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Midland, Texas 79706

Reporting Level II
 Level III ST/JUST RRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name:	Muy Wayno Frac Pond-Big D	Turn Around	
Project Number:	31403190	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
P.O. Number:	Luis Del Val	Rush:	<input checked="" type="checkbox"/>
Sampler's Name:		Due Date:	

ANALYSIS REQUEST

SAMPLE RECEIPT	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet/Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Temperature (°C):			Thermometer ID	
Received Intact:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Correction Factor:	

Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Total Containers:	
Sample Identification	Matrix	Date Sampled	Time Sampled
FS31	S	5/14/2021	1034
FS32	S	5/14/2021	1036
FS33	S	5/14/2021	1038
FS34	S	5/14/2021	1040
FS35	S	5/14/2021	1042
FS36	S	5/14/2021	1044
FS37	S	5/14/2021	1046
FS38	S	5/14/2021	1048
FS39	S	5/14/2021	1050
FS40	S	5/14/2021	1052

ANALYSIS REQUEST

ANALYSIS REQUEST

Number of Containers

TPH (EPA 8015)

BTEX (EPA 0=8021)

Chloride (EPA 300.0)

Sample Comments

PLEASE CC INVOICE TO:

KALEI JENNINGS

Incident #S:

NRM2024756871

NRM2028241966

NAPP2102239584

NAPP2102626563



Chain of Custody

Work Order No

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	
www.AERIOLIC.com	
Work Order Comments	
Project Manager: Kalei Jennings	Bill To: (if different) Todd Moore
Company Name: WSP USA Inc.	Company Name: Big D Companies
Address: 3300 North A Street	Address: 4501 E Highway 80
City, State ZIP: Midland, TX 79705	City, State ZIP: Midland, Texas 79706
Phone: 432.236.3849	Email: Email: luis.delval@wsp.com; kaleijennings@wsp.com
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: <input type="checkbox"/> Reporting-Level II <input type="checkbox"/> Level III <input type="checkbox"/> SIT/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADA/PT <input type="checkbox"/> Other:	

ANALYSIS REQUEST		Work Order Notes
Project Name:	Muy Wayno Frac Pond-Big D	Turn Around
Project Number:	31403190	Routine <input checked="" type="checkbox"/>
P.O. Number:		Rush: <input type="checkbox"/>
Sampler's Name:	Luis Del Val	Due Date:
		AFES:
		DD.2017.01917.CMP.01
		DD.2017.01911.CMP.01

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):					Thermometer ID F23		
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A		Correction Factor:		
Sample Custody Seals:	Yes	No	N/A		Total Containers:		

NRM2024756871
NRM2028241966
NAPP2102239584
NAPP2102629563

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

Notation-Signature-Offices document and requirement. 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.

Plates-Signature-of this document and remittance 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

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

~~Received by~~

Received by: (Signature)

5.17.21 180

Relinquished by

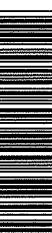
א. (תגלית&תעודה)

Received by: (Signature)

卷之三

9/Time

Received by OCD: 7/15/2021 2:17:52 PM

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14**Chain of Custody Record**

eurofins

Environment Testing
America

1089 N Canal St.

Carlsbad, NM 88220

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

Eurofins Xenco, Carlsbad														
1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199														
Client Information (Sub Contract Lab)			Sampler			Lab PM Kramer, Jessica			Carrier Tracking No(s): 890-219-1					
Client Contact: Shipping/Receiving			Phone:			E-Mail: jessica.kramer@eurofinset.com			State of Origin: New Mexico					
Company: Eurofins Xenco			Address: 1211 W Florida Ave. Midland			Accreditations Required (See note): NEILAP - Texas			Page: Page 1 of 5					
City, State, Zip TX, 79701			PO#:			MO#:			Job#: 890-678-1					
Phone: 432-704-5440(Tel)			Email:			Project #: 88000055								
Project Name: Muy Wayno Frac Pond-Big D			Site:			SSOW#:								
Analysis Requested														
Sample Identification - Client ID (Lab ID)			Sample Date			Sample Time			Sample Type (C=comp, G=grab) B=Instrate, A=Air)			Matrix (W=water S=solid O=oil/water/oil)		
FS01 (890-678-1)			5/13/21			14:50			Solid			Field Filtered Sample (Yes or No): X		
FS02 (890-678-2)			5/13/21			14:52			Solid			Perform MS/MSD (Yes or No): X		
FS03 (890-678-3)			5/13/21			14:54			Solid			8021B/6036FP_Calc BTEX 8016MOD_NM/8016NM_S_Prep Full TPH 300_ORGFM_28D/DI LEACH Chloride		
FS04 (890-678-4)			5/13/21			14:56			Solid			Total Number of containers: X		
FS05 (890-678-5)			5/13/21			15:00			Solid			Special Instructions/Note: X		
FS06 (890-678-6)			5/13/21			15:02			Solid			X		
FS07 (890-678-7)			5/13/21			15:04			Solid			X		
FS08 (890-678-8)			5/13/21			15:06			Solid			X		
FS09 (890-678-9)			5/13/21			15:13			Solid			X		
Note: Since laboratory accreditation are subject to change, Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify)			Primary Deliverable Rank 2			Sample Disposal / A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			Special Instructions/QC Requirements			Method of Shipment:		
Relinquished by <i>One Cut 5-17-21</i>			Date: <i>5/13/21</i>			Time: <i>14:50</i>			Received by <i>[Signature]</i>			Date/ Time: <i>5/13/21 14:50</i>		
Relinquished by			DateTime:			Company:			Received by:			Company		
Relinquished by			DateTime:			Company:			Received by:			DateTime:		
Custody Seals intact: △ Yes			Custody Seal No △ No			Cooler Temperature(s) °C and Other Remarks								

Chain of Custody Record



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Environment Testing
of Materials

Client Information (Sub Contract Lab)	Sampler	Lab PM Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-219-1
Client Contact:	Phone	E-Mail jessica.kramer@eurofinself.com	State of Origin New Mexico	Page: Done 1 of 5

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

Possible Hazard Identification		<input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2	
Empty Kit Relinquished by		Special Instructions/QC Requirements	
Relinquished by	Date	Time	Method of Shipment
<i>John Clark</i> → 5-17-21	[DateTime: Date/Time:	Company Received by: <i>John Clark</i>	[DateTime: Date/Time: Company Received by: <i>John Clark</i>
Relinquished by	[DateTime: Date/Time:	Company Received by: <i>John Clark</i>	[DateTime: Date/Time: Company Received by: <i>John Clark</i>
Relinquished by	[DateTime: Date/Time:	Company Received by: <i>John Clark</i>	[DateTime: Date/Time: Company Received by: <i>John Clark</i>
Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 	

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

Chain of Custody Record

 Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler	Lab P.M.	Kramer, Jessica	Carrier Tracking No(s):	COC No:	890-219 3
Client Contact: Shipping/Receiving		Phone:	E-Mail:	jessica.kramer@eurofinset.com	State of Origin:	Page	Page 3 of 5
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas					
Address: 1211 W Florida Ave , City: Midland State, Zip: TX, 79701		Date Requested	5/21/2021	IRI Requested (days)	Analysis Requested		
		PO#:		WO#:			
		Project #:	88000055	SSOW#:			
Site: Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=swastol, B=trisole, A=air)	Field Filtered	Sample (Yes or No)
FS19 (890-678-19)		09 26	5/14/21	Solid	X X X		Perform MS/MSD (Yes or No)
FS20 (890-678-20)		09 37	5/14/21	Mountain	Solid	X X X	8021B/6036FP_Calc BTEX
FS21 (890-678-21)		09 39	5/14/21	Mountain	Solid	X X X	8016MOD_NM/8016NM_S_Prep Full TPH
FS22 (890-678-22)		09 41	5/14/21	Mountain	Solid	X X X	300_ORGFM_28D/DI LEACH Chloride
FS23 (890-678-23)		09 43	5/14/21	Mountain	Solid	X X X	
FS24 (890-678-24)		09 45	5/14/21	Mountain	Solid	X X X	
FS25 (890-678-25)		09 47	5/14/21	Mountain	Solid	X X X	
FS26 (890-678-26)		09 49	5/14/21	Mountain	Solid	X X X	
FS27 (890-678-27)		10 19	5/14/21	Mountain	Solid	X X X	
							Total Number of containers
							Special Instructions/Note:
							Preservation Codes
							A HCl B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Ammonium H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other
							M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SiO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2					
Relinquished by: <i>Joe Goff</i> 5-17-21		Date	Time	Company	Received by: <i>Jessica Kramer</i>	Date/Time: <i>5-18-21 11:10 AM</i>	Method of Shipment: Company
Relinquished by:		Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:		Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact:		Custody Seal No _____					
Δ Yes		Δ No					

Received by OCD: 7/15/2021 2:17:52 PM

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-678-1

SDG Number: 314031190

Login Number: 678**List Source: Eurofins Xenco, Carlsbad****List Number: 1****Creator: Ordonez, Gabby**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		1
Sample custody seals, if present, are intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-678-1

SDG Number: 314031190

Login Number: 678**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 05/18/21 11:10 AM**Creator:** Copeland, Tatiana

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		1
Sample custody seals, if present, are intact.	True		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		



Environment Testing
America



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ANALYTICAL REPORT

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

Laboratory Job ID: 890-736-1

Laboratory Sample Delivery Group: Eddy
Client Project/Site: Muy Wayno Frac Pond
Revision: 1

For:

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

Attn: Dan Moir

Authorized for release by:

7/12/2021 5:38:04 PM
Chad Bechtold, Project Manager
(813)690-3563
chad.bechtold@eurofinset.com

Designee for

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.

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
SDG: Eddy

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
SDG: Eddy

Job ID: 890-736-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-736-1

Receipt

The samples were received on 5/26/2021 2:21 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 8.0°C

Report Revision

Per client request the sample IDs were changed as requested via email on 7/12/2021.

BG01 was changed to SS03

BG02 was changed to SS04

BG03 was changed to SS05

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS03 (890-736-1), SS04 (890-736-2) and SS05 (890-736-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Manual integration was performed on the following samples: (MB 880-3585/1-A) and (890-735-A-1-D). Manual integrations were performed in the Over C10-C28 hydrocarbon range and the Over C28-C36 hydrocarbon range due to false detections created by a baseline rise.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
SDG: Eddy

Client Sample ID: SS03

Date Collected: 05/26/21 10:34
Date Received: 05/26/21 14:21
Sample Depth: - 0.5

Lab Sample ID: 890-736-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
Toluene	<0.00201	U	0.00201	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
o-Xylene	<0.00201	U	0.00201	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
Total BTEX	<0.00402	U	0.00402	mg/Kg	05/27/21 12:00	05/27/21 23:59		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/27/21 12:00	05/27/21 23:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/27/21 12:00	05/27/21 23:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 23:02		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 23:02		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 23:02		1
Total TPH	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 23:02		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/27/21 14:14	05/28/21 23:02	1
o-Terphenyl	93		70 - 130			05/27/21 14:14	05/28/21 23:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.7		5.04	mg/Kg			05/28/21 16:37	1

Client Sample ID: SS04

Date Collected: 05/26/21 10:38
Date Received: 05/26/21 14:21
Sample Depth: - 0.5

Lab Sample ID: 890-736-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
Toluene	<0.00199	U	0.00199	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
o-Xylene	<0.00199	U	0.00199	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
Total BTEX	<0.00398	U	0.00398	mg/Kg	05/27/21 12:00	05/28/21 00:19		1
Surrogate								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			05/27/21 12:00	05/28/21 00:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/27/21 12:00	05/28/21 00:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
SDG: Eddy

Client Sample ID: SS04
Date Collected: 05/26/21 10:38
Date Received: 05/26/21 14:21
Sample Depth: - 0.5

Lab Sample ID: 890-736-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 23:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 23:24	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			05/27/21 14:14	05/28/21 23:24	1
o-Terphenyl	92		70 - 130			05/27/21 14:14	05/28/21 23:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.7		4.99	mg/Kg			05/28/21 16:42	1

Client Sample ID: SS05
Date Collected: 05/26/21 10:41
Date Received: 05/26/21 14:21
Sample Depth: - 0.5

Lab Sample ID: 890-736-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/27/21 12:00	05/28/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			05/27/21 12:00	05/28/21 00:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/27/21 12:00	05/28/21 00:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 23:45	1
Total TPH	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/27/21 14:14	05/28/21 23:45	1
o-Terphenyl	97		70 - 130			05/27/21 14:14	05/28/21 23:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.97	mg/Kg			05/29/21 04:06	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB1 (70-130)	DFBZ1 (70-130)	
890-736-1	SS03	113	100	
890-736-2	SS04	117	101	
890-736-3	SS05	115	98	
LCS 880-3566/1-A	Lab Control Sample	108	96	
LCSD 880-3566/2-A	Lab Control Sample Dup	108	94	
MB 880-3566/5-A	Method Blank	109	93	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
890-736-1	SS03	97	93	
890-736-2	SS04	96	92	
890-736-3	SS05	97	97	
LCS 880-3585/3-A	Lab Control Sample	96	86	
MB 880-3585/1-A	Method Blank	96	91	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-3566/5-A****Matrix: Solid****Analysis Batch: 3568****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3566**

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

MB MB

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

Lab Sample ID: LCS 880-3566/1-A**Matrix: Solid****Analysis Batch: 3568****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3566**

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

LCS LCS

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		70 - 130	05/27/21 10:16	05/27/21 16:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/27/21 10:16	05/27/21 16:14	1

Lab Sample ID: LCSD 880-3566/2-A**Matrix: Solid****Analysis Batch: 3568****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 3566**

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

LCSD LCSD

Surrogate	LCSD	LCSD	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	108		70 - 130	05/27/21 10:16	05/27/21 16:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/27/21 10:16	05/27/21 16:14	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
 SDG: Eddy

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-3585/1-A****Matrix: Solid****Analysis Batch: 3616****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 3585**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 14:51		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	05/27/21 14:14	05/28/21 14:51		1
Oil Range Organics (Over C28-C36)	107.7		50.0	mg/Kg	05/27/21 14:14	05/28/21 14:51		1
Total TPH	107.7		50.0	mg/Kg	05/27/21 14:14	05/28/21 14:51		1

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

Lab Sample ID: LCS 880-3585/3-A**Matrix: Solid****Analysis Batch: 3616****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 3585**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO)-C6-C10	1000	844.3		mg/Kg	84	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	892.1		mg/Kg	89	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
<i>o</i> -Terphenyl	86		70 - 130				

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-3587/1-A****Matrix: Solid****Analysis Batch: 3608****Client Sample ID: Method Blank****Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/28/21 13:46	1

Lab Sample ID: LCS 880-3587/2-A**Matrix: Solid****Analysis Batch: 3608****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Chloride	250	244.0		mg/Kg	98	90 - 110	

Lab Sample ID: LCSD 880-3587/3-A**Matrix: Solid****Analysis Batch: 3608****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Chloride	250	244.1		mg/Kg	98	90 - 110		0

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-736-1

Project/Site: Muy Wayno Frac Pond

SDG: Eddy

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: MB 880-3620/1-A****Matrix: Solid****Analysis Batch: 3649****Client Sample ID: Method Blank****Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/29/21 01:59	1

Lab Sample ID: LCS 880-3620/2-A**Matrix: Solid****Analysis Batch: 3649****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.6		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-3620/3-A**Matrix: Solid****Analysis Batch: 3649****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.0		mg/Kg		98	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
 SDG: Eddy

GC VOA**Prep Batch: 3566**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Total/NA	Solid	5035	
890-736-2	SS04	Total/NA	Solid	5035	
890-736-3	SS05	Total/NA	Solid	5035	
MB 880-3566/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3566/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3566/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Total/NA	Solid	8021B	3566
890-736-2	SS04	Total/NA	Solid	8021B	3566
890-736-3	SS05	Total/NA	Solid	8021B	3566
MB 880-3566/5-A	Method Blank	Total/NA	Solid	8021B	3566
LCS 880-3566/1-A	Lab Control Sample	Total/NA	Solid	8021B	3566
LCSD 880-3566/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3566

GC Semi VOA**Prep Batch: 3585**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Total/NA	Solid	8015NM Prep	
890-736-2	SS04	Total/NA	Solid	8015NM Prep	
890-736-3	SS05	Total/NA	Solid	8015NM Prep	
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Total/NA	Solid	8015B NM	3585
890-736-2	SS04	Total/NA	Solid	8015B NM	3585
890-736-3	SS05	Total/NA	Solid	8015B NM	3585
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015B NM	3585
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015B NM	3585

HPLC/IC**Leach Batch: 3587**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Soluble	Solid	DI Leach	
890-736-2	SS04	Soluble	Solid	DI Leach	
MB 880-3587/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-1	SS03	Soluble	Solid	300.0	3587
890-736-2	SS04	Soluble	Solid	300.0	3587
MB 880-3587/1-A	Method Blank	Soluble	Solid	300.0	3587
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	300.0	3587
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3587

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.

Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1

SDG: Eddy

HPLC/IC**Leach Batch: 3620**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-3	SS05	Soluble	Solid	DI Leach	
MB 880-3620/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3620/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3620/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-736-3	SS05	Soluble	Solid	300.0	3620
MB 880-3620/1-A	Method Blank	Soluble	Solid	300.0	3620
LCS 880-3620/2-A	Lab Control Sample	Soluble	Solid	300.0	3620
LCSD 880-3620/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3620

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
 SDG: Eddy

Client Sample ID: SS03

Date Collected: 05/26/21 10:34
 Date Received: 05/26/21 14:21

Lab Sample ID: 890-736-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/27/21 23:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 23:02	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:37	SC	XEN MID

Client Sample ID: SS04

Date Collected: 05/26/21 10:38
 Date Received: 05/26/21 14:21

Lab Sample ID: 890-736-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/28/21 00:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 23:24	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:42	SC	XEN MID

Client Sample ID: SS05

Date Collected: 05/26/21 10:41
 Date Received: 05/26/21 14:21

Lab Sample ID: 890-736-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3566	05/27/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3568	05/28/21 00:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 23:45	AJ	XEN MID
Soluble	Leach	DI Leach			3620	05/28/21 12:43	SC	XEN MID
Soluble	Analysis	300.0		1	3649	05/29/21 04:06	SC	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-736-1

Project/Site: Muy Wayno Frac Pond

SDG: Eddy

Laboratory: Eurofins Xenco, Midland

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

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

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

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

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.

Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1

SDG: Eddy

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
 Project/Site: Muy Wayno Frac Pond

Job ID: 890-736-1
 SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-736-1	SS03	Solid	05/26/21 10:34	05/26/21 14:21	- 0.5
890-736-2	SS04	Solid	05/26/21 10:38	05/26/21 14:21	- 0.5
890-736-3	SS05	Solid	05/26/21 10:41	05/26/21 14:21	- 0.5

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Chain of Custody Record



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Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM Kramer Jessica	Carrier Tracking No(s): State of Origin: New Mexico	COC No: 890-242-1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofins.net.com	Page: Page 1 of 1		Page:
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job#: 890-736-1	
Address: 1211 W Florida Ave		Due Date Requested: 6/21/2021		Preservation Codes	
City: Midland		TAT Requested (days)			
State, Zip: TX, 79701					
Phone: 432-704-5440(Tel)					
Email:					
Project Name: Muy Wayno Frac Pond					
Site:					
Analysis Requested <input checked="" type="checkbox"/> Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)					
8015MOD_NM/8015NM_S_Prep Full TPH 300_ORGFM_28D/DI LEACH Chloride 8021B/5036FP_Calc BTEX					
Total Number of containers <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input checked="" type="checkbox"/> 9 <input checked="" type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12 <input checked="" type="checkbox"/> 13 <input checked="" type="checkbox"/> 14 <input checked="" type="checkbox"/> 15 <input checked="" type="checkbox"/> 16 <input checked="" type="checkbox"/> 17 <input checked="" type="checkbox"/> 18 <input checked="" type="checkbox"/> 19 <input checked="" type="checkbox"/> 20 <input checked="" type="checkbox"/> 21 <input checked="" type="checkbox"/> 22 <input checked="" type="checkbox"/> 23 <input checked="" type="checkbox"/> 24 <input checked="" type="checkbox"/> 25 <input 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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-736-1
SDG Number: Eddy**Login Number:** 736**List Source:** Eurofins Xenco, Carlsbad**List Number:** 1**Creator:** Clifton, Cloe**Question****Answer****Comment**

The cooler's custody seal, if present, is intact.	True		6
Sample custody seals, if present, are intact.	True		7
The cooler or samples do not appear to have been compromised or tampered with.	True		8
Samples were received on ice.	True		9
Cooler Temperature is acceptable.	True		10
Cooler Temperature is recorded.	True		11
COC is present.	True		12
COC is filled out in ink and legible.	True		13
COC is filled out with all pertinent information.	True		14
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-736-1

SDG Number: Eddy

Login Number: 736**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 05/27/21 11:06 AM**Creator:** Kramer, Jessica

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		6
Sample custody seals, if present, are intact.	True		7
The cooler or samples do not appear to have been compromised or tampered with.	True		8
Samples were received on ice.	True		9
Cooler Temperature is acceptable.	True		10
Cooler Temperature is recorded.	True		11
COC is present.	True		12
COC is filled out in ink and legible.	True		13
COC is filled out with all pertinent information.	True		14
Is the Field Sampler's name present on COC?	N/A		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 36559

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 36559
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/18/2021