

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2100832034
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD) NAPP2100832034
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.38096 Longitude -103.88626
(NAD 83 in decimal degrees to 5 decimal places)

Site Name JRU DI 1A Ennis	Site Type Well Pad
Date Release Discovered 12/28/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	21	22S	30E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 1
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Contractor left a plug valve open on a pump releasing fluid into containment and on the ground. A third-party contractor has been retained for remediation activities.

Form C-141

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

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

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

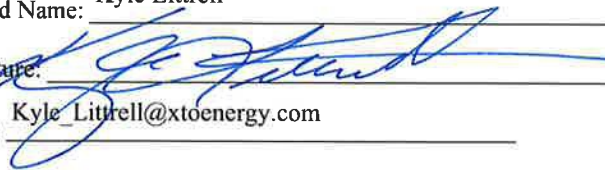
NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell

Title: SH&E Supervisor

Signature: 

Date: 01-08-21

email: Kyle_Littrell@xtoenergy.com

Telephone: 432-221-7331

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2100832034
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Site Assessment/Characterization

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

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

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

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

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

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

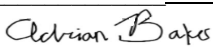
State of New Mexico
Oil Conservation Division

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Facility ID	
Application ID	

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

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature:  Date: 8/18/2021

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

OCD Only

Received by: Ramona Marcus Date: 8/25/2021

Incident ID	NRM2026238329
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 8/18/2021

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

OCD Only

Received by: Ramona Marcus Date: 8/25/2021

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

Closure Approved by: Chad Hensley Date: 09/28/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA

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

August 23, 2021

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

**RE: Closure Request
JRU DI 1A Ennis
Incident Number NAPP2100832034
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, soil sampling, and excavation activities at the JRU DI 1A Ennis (Site) in Unit G, Section 21, Township 22 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2100832034.

RELEASE BACKGROUND

On December 28, 2020, a plug valve was left open on a pump, resulting in the release of 5 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 1 bbl of produced water was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on January 8, 2021. The release was assigned Incident Number NAPP2100832034.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-03015, located approximately 1 mile southeast of the Site. The groundwater well was most recently measured in January 2004 has a reported depth to groundwater of 262 feet bgs and a total depth of 1,316 feet bgs. Ground surface elevation at the groundwater well location is 3,282 feet above mean sea level (amsl), which is approximately 128 feet higher in elevation than the



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

The closest continuously flowing or significant watercourse to the Site is an ephemeral stream, located approximately 397 feet east 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 located in a high 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
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND EXCAVATION SOIL SAMPLING ACTIVITIES

Remediation efforts were postponed due to ongoing drilling operations near the release, which resulted in activity restrictions at the Site due to safety concerns. On May 27, 2021, once drilling operations were complete, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Based on visible staining in the release area, excavation of impacted soil was warranted.

On June 22, 2021, WSP personnel returned to the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and field screening activities. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS23 were collected from the floor of the excavation from depths ranging from 2 feet to 2.5 feet bgs. Composite soil samples SW04 through SW04 were collected from the sidewalls of the excavation



from depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 2. Photographic documentation is included in Attachment 2.

The excavation 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 Midland, Texas, 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.

The excavation area measured approximately 4,673 square feet. A total of approximately 173 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 through SW04 and excavation floor samples FS01 through FS23 indicated that benzene, BTEX, 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.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 28, 2020 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Initial response efforts which included removal of freestanding fluids and excavation of impacted soil have mitigated impacts at this Site. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests NFA for Incident Number NAPP2100832034.

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



District II
Page 4

Sincerely,

WSP USA Inc.

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

Kaleb Henry
Consultant, Geologist

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

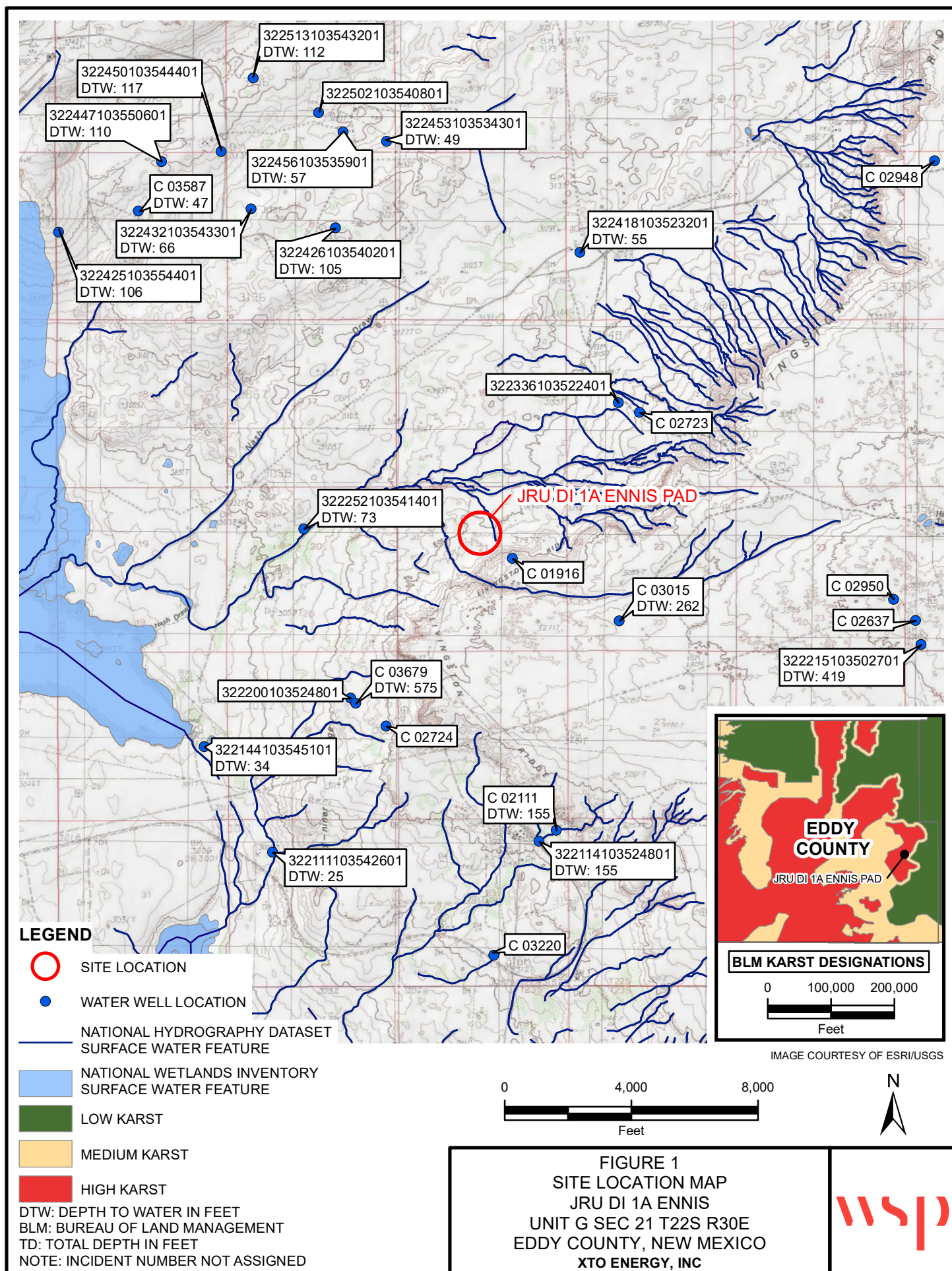
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Adrian Baker, XTO
Bureau of Land Management

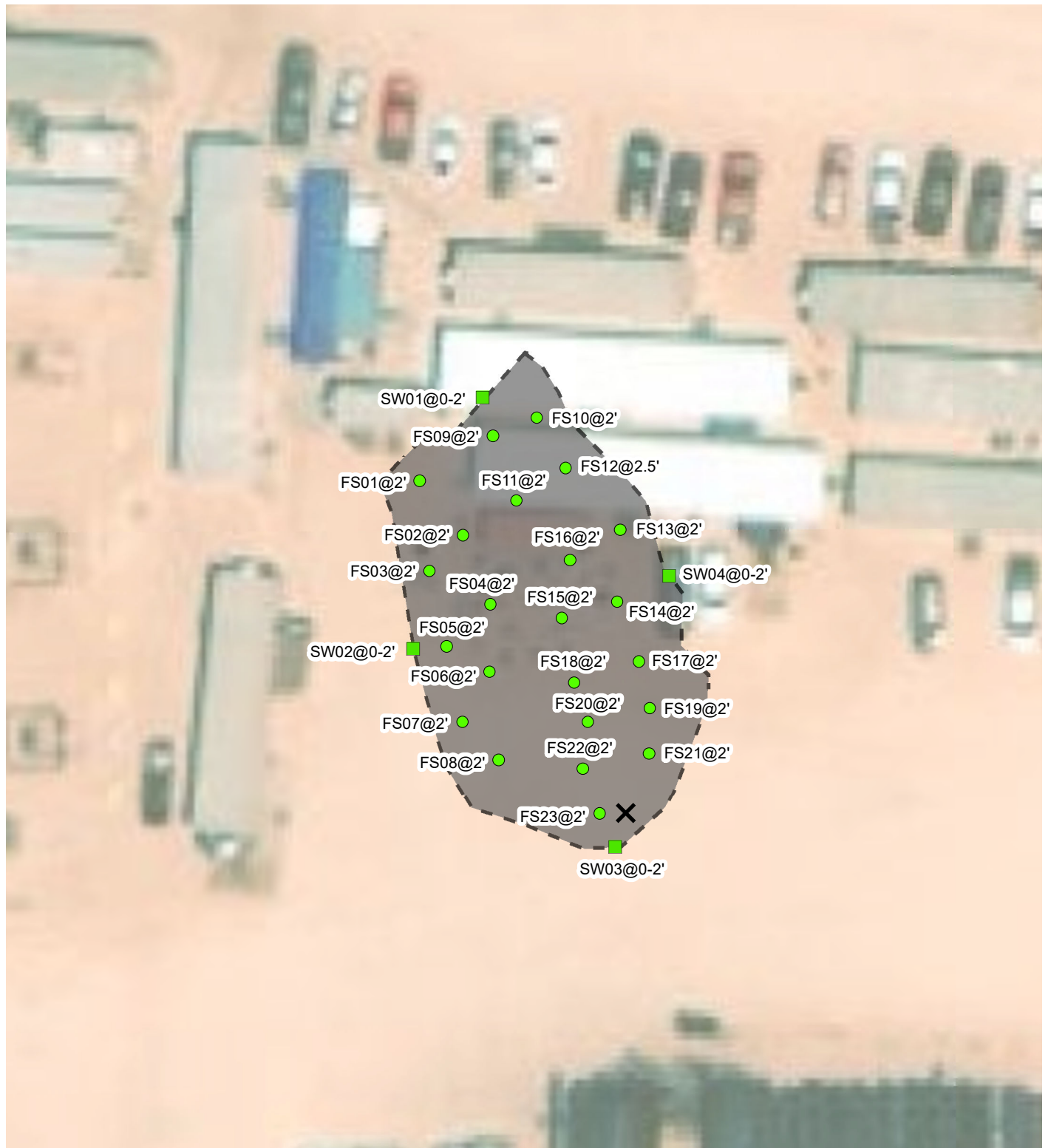
Attachments:

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

FIGURES



P:\XTO Energy\GIS\MXD\012921010_JRU DI 1A ENNIS PAD\012921010_FIG01_SL_RECEPTOR_2021.mxd

**LEGEND**

- X** RELEASE LOCATION
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT / EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NOT ASSIGNED
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

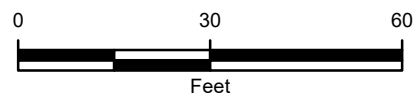


FIGURE 2
EXCAVATION SOIL SAMPLE LOCATIONS
 JRJ DI 1A ENNIS
 UNIT G SEC 21 T22S R30E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
JRU DI 1A Ennis
Incident Number NAPP2100832034
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Samples										
FS01	06/22/2021	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	51.1
FS02	06/22/2021	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	19.3
FS03	06/22/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
FS04	06/22/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	83.0
FS05	06/22/2021	2	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	12.4
FS06	06/22/2021	2	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	20.1
FS07	06/22/2021	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	7.72
FS08	06/22/2021	2	<0.00199	0.00474	<49.9	<49.9	<49.9	<49.9	<49.9	21.1
FS09	06/22/2021	2	<0.00199	0.0117	<49.8	<49.8	<49.8	<49.8	<49.8	89.8
FS10	06/22/2021	2	0.00274	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	16.6
FS11	06/22/2021	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12.0
FS12	06/22/2021	2.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	20.3
FS13	06/22/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	32.6
FS14	06/22/2021	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	32.6
FS15	06/22/2021	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	6.34
FS16	06/22/2021	2	<0.00199	0.00686	<49.8	<49.8	<49.8	<49.8	<49.8	15.9
FS17	06/22/2021	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	24.8
FS18	06/22/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	94.8
FS19	06/22/2021	2	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	152
FS20	06/22/2021	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	308

Table 1

Soil Analytical Results
 JRU DI 1A Ennis
 Incident Number NAPP2100832034
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS21	06/22/2021	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	160
FS22	06/22/2021	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	237
FS23	06/22/2021	2	<0.00200	0.00417	<50.0	<50.0	<50.0	<50.0	<50.0	250
SW01	06/22/2021	0 - 2	0.0136	0.0484	<49.9	<49.9	<49.9	<49.9	<49.9	56.0
SW02	06/22/2021	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	124
SW03	06/22/2021	0 - 2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	371
SW04	06/22/2021	0 - 2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	14.9

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

ATTACHMENT 1: REFERENCED WELL RECORDS



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	03015	1	4	3	22	22S	30E	606099	3582353*
									
Driller License: 331		Driller Company:		SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.					
Driller Name:									
Drill Start Date:	01/21/2004	Drill Finish Date:	01/25/2004		Plug Date:				
Log File Date:	03/04/2004	PCW Rev Date:			Source: Artesian				
Pump Type:		Pipe Discharge Size:			Estimated Yield:				
Casing Size:	6.00	Depth Well:	1316 feet		Depth Water: 262 feet				
Water Bearing Stratifications:		Top	Bottom	Description					
		362	385	Other/Unknown					
Casing Perforations:		Top	Bottom						
		261	386						

*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.

1/12/21 12:03 PM

POINT OF DIVERSION SUMMARY

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°22'52", Longitude 103°54'14" NAD27

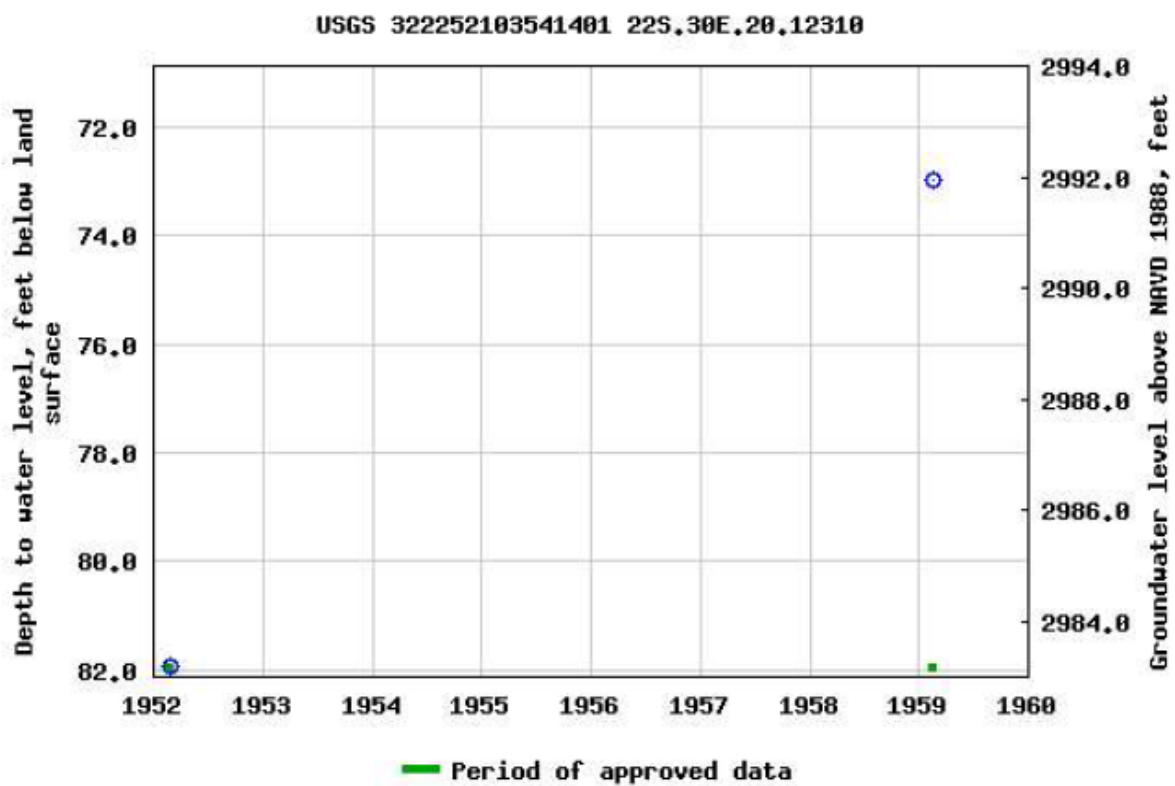
Land-surface elevation 3,065 feet above NAVD88

The depth of the well is 129 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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



ATTACHMENT 2: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG****XTO Energy, Inc.****JRU DI 1A Ennis
Eddy County, New Mexico****NAPP2100832034**

Photo No.	Date	
1	June 18, 2021	
Southeastern view of delineation soil sampling activities.		 A yellow CAT excavator is shown in a desert environment, digging a large pile of dirt. The ground is dry and sandy. In the background, there are some industrial structures and a clear blue sky.

Photo No.	Date	
2	June 18, 2021	
Western view of excavation activities.		 A wide view of an excavation site. A large, deep, rectangular pit has been dug into the dry, sandy ground. In the background, there are some industrial structures, a white pickup truck, and a few people standing near the truck. The sky is clear and blue.

**PHOTOGRAPHIC LOG****XTO Energy, Inc.****JRU DI 1A Ennis
Eddy County, New Mexico****NAPP2100832034**

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-858-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: JRU DI IA Ennis

For:

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

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
6/30/2021 10:52:41 AM

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: JRU DI IA Ennis

Laboratory Job ID: 890-858-1
SDG: Eddy County

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, 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
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Job ID: 890-858-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-858-1****Receipt**

The samples were received on 6/23/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-4589 and analytical batch 880-4550 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

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: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS01

Lab Sample ID: 890-858-1

Date Collected: 06/22/21 10:12

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 01:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	06/24/21 13:04	06/25/21 01:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/24/21 13:04	06/25/21 01:02	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	<49.7	U *1 F1	49.7	mg/Kg		06/24/21 14:20	06/25/21 12:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 12:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 12:41	1
Total TPH	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	06/24/21 14:20	06/25/21 12:41	1
o-Terphenyl	81		70 - 130	06/24/21 14:20	06/25/21 12:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.1		5.02	mg/Kg			06/28/21 22:17	1

Client Sample ID: FS02

Lab Sample ID: 890-858-2

Date Collected: 06/22/21 10:15

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	06/24/21 13:04	06/25/21 01:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/24/21 13:04	06/25/21 01:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS02

Lab Sample ID: 890-858-2

Date Collected: 06/22/21 10:15

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/24/21 14:20	06/25/21 13:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 13:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 13:44	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/24/21 14:20	06/25/21 13:44	1
o-Terphenyl	100		70 - 130	06/24/21 14:20	06/25/21 13:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.3		4.95	mg/Kg			06/28/21 22:30	1

Client Sample ID: FS03

Lab Sample ID: 890-858-3

Date Collected: 06/22/21 10:18

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:42	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/25/21 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	06/24/21 13:04	06/25/21 01:42	1
1,4-Difluorobenzene (Surr)	80		70 - 130	06/24/21 13:04	06/25/21 01:42	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 *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 14:05	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/24/21 14:20	06/25/21 14:05	1
o-Terphenyl	101		70 - 130	06/24/21 14:20	06/25/21 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		5.02	mg/Kg			06/28/21 22:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS04

Lab Sample ID: 890-858-4

Date Collected: 06/22/21 10:20

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 02:03	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:04	06/25/21 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	06/24/21 13:04	06/25/21 02:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/24/21 13:04	06/25/21 02:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:31	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	06/24/21 14:20	06/25/21 14:31	1
o-Terphenyl	93		70 - 130	06/24/21 14:20	06/25/21 14:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.0		4.99	mg/Kg			06/28/21 22:39	1

Client Sample ID: FS05

Lab Sample ID: 890-858-5

Date Collected: 06/22/21 10:28

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/24/21 13:04	06/25/21 02:23	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		06/24/21 13:04	06/25/21 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/24/21 13:04	06/25/21 02:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/24/21 13:04	06/25/21 02:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS05

Lab Sample ID: 890-858-5

Date Collected: 06/22/21 10:28

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:52	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/24/21 14:20	06/25/21 14:52	1
o-Terphenyl	103		70 - 130	06/24/21 14:20	06/25/21 14:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.04	mg/Kg			06/28/21 22:44	1

Client Sample ID: FS06

Lab Sample ID: 890-858-6

Date Collected: 06/22/21 10:30

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1	0.00198	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
Ethylbenzene	<0.00198	U F1	0.00198	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		06/24/21 13:15	06/25/21 00:49	1
Total BTEX	<0.00397	U F2 F1	0.00397	mg/Kg		06/24/21 13:15	06/25/21 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/24/21 13:15	06/25/21 00:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/24/21 13:15	06/25/21 00:49	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	<49.7	U *1	49.7	mg/Kg		06/24/21 14:20	06/25/21 15:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 15:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 15:13	1
Total TPH	<49.7	U	49.7	mg/Kg		06/24/21 14:20	06/25/21 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	06/24/21 14:20	06/25/21 15:13	1
o-Terphenyl	80		70 - 130	06/24/21 14:20	06/25/21 15:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		4.96	mg/Kg			06/28/21 22:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS07

Lab Sample ID: 890-858-7

Date Collected: 06/22/21 10:32

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 01:10	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	06/24/21 13:15	06/25/21 01:10	1
1,4-Difluorobenzene (Surr)	118		70 - 130	06/24/21 13:15	06/25/21 01:10	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		06/24/21 14:55	06/25/21 05:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:30	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/24/21 14:55	06/25/21 05:30	1
o-Terphenyl	100		70 - 130	06/24/21 14:55	06/25/21 05:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.72		4.98	mg/Kg			06/28/21 22:53	1

Client Sample ID: FS08

Lab Sample ID: 890-858-8

Date Collected: 06/22/21 10:34

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
m-Xylene & p-Xylene	0.00474		0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
Xylenes, Total	0.00474		0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:31	1
Total BTEX	0.00474		0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	06/24/21 13:15	06/25/21 01:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/24/21 13:15	06/25/21 01:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS08

Lab Sample ID: 890-858-8

Date Collected: 06/22/21 10:34

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:51	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:55	06/25/21 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/24/21 14:55	06/25/21 05:51	1
o-Terphenyl	89		70 - 130	06/24/21 14:55	06/25/21 05:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		4.98	mg/Kg			06/28/21 23:06	1

Client Sample ID: FS09

Lab Sample ID: 890-858-9

Date Collected: 06/22/21 12:50

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
Toluene	0.00925		0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
Ethylbenzene	0.00247		0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:51	1
Total BTEX	0.0117		0.00398	mg/Kg		06/24/21 13:15	06/25/21 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130	06/24/21 13:15	06/25/21 01:51	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/24/21 13:15	06/25/21 01:51	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	<49.8	U	49.8	mg/Kg		06/24/21 14:55	06/25/21 06:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 14:55	06/25/21 06:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 14:55	06/25/21 06:12	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 14:55	06/25/21 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/24/21 14:55	06/25/21 06:12	1
o-Terphenyl	85		70 - 130	06/24/21 14:55	06/25/21 06:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.8		4.98	mg/Kg			06/28/21 23:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS10

Lab Sample ID: 890-858-10

Date Collected: 06/22/21 12:52

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00274		0.00201	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 02:12	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	287	S1+	70 - 130	06/24/21 13:15	06/25/21 02:12	1
1,4-Difluorobenzene (Surr)	270	S1+	70 - 130	06/24/21 13:15	06/25/21 02:12	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 *1	49.9	mg/Kg		06/24/21 14:20	06/25/21 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 16:38	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/24/21 14:20	06/25/21 16:38	1
o-Terphenyl	100		70 - 130	06/24/21 14:20	06/25/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		5.00	mg/Kg			06/28/21 23:24	1

Client Sample ID: FS11

Lab Sample ID: 890-858-11

Date Collected: 06/22/21 12:55

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 02:32	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	06/24/21 13:15	06/25/21 02:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/24/21 13:15	06/25/21 02:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS11

Lab Sample ID: 890-858-11

Date Collected: 06/22/21 12:55

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:20	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	06/24/21 14:20	06/25/21 17:20	1
o-Terphenyl	120		70 - 130	06/24/21 14:20	06/25/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.0		5.00	mg/Kg			06/28/21 23:28	1

Client Sample ID: FS12

Lab Sample ID: 890-858-12

Date Collected: 06/22/21 14:29

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
o-Xylene	0.00222		0.00200	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 02:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/24/21 13:15	06/25/21 02:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/24/21 13:15	06/25/21 02:53	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 *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:41	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	06/24/21 14:20	06/25/21 17:41	1
o-Terphenyl	97		70 - 130	06/24/21 14:20	06/25/21 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		5.04	mg/Kg			06/28/21 23:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS13

Lab Sample ID: 890-858-13

Date Collected: 06/22/21 13:22

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 03:14	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/24/21 13:15	06/25/21 03:14	1
1,4-Difluorobenzene (Surr)	112		70 - 130	06/24/21 13:15	06/25/21 03:14	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 *1	49.9	mg/Kg		06/24/21 14:20	06/25/21 18:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 18:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 18:07	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	06/24/21 14:20	06/25/21 18:07	1
o-Terphenyl	115		70 - 130	06/24/21 14:20	06/25/21 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.6		5.02	mg/Kg			06/28/21 23:37	1

Client Sample ID: FS14

Lab Sample ID: 890-858-14

Date Collected: 06/22/21 13:25

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:34	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/24/21 13:15	06/25/21 03:34	1
1,4-Difluorobenzene (Surr)	118		70 - 130	06/24/21 13:15	06/25/21 03:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS14

Lab Sample ID: 890-858-14

Date Collected: 06/22/21 13:25

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:28	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/24/21 14:20	06/25/21 18:28	1
o-Terphenyl	95		70 - 130	06/24/21 14:20	06/25/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.6		5.00	mg/Kg			06/28/21 23:41	1

Client Sample ID: FS15

Lab Sample ID: 890-858-15

Date Collected: 06/22/21 13:27

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
o-Xylene	0.00230		0.00201	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:55	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	06/24/21 13:15	06/25/21 03:55	1
1,4-Difluorobenzene (Surr)	114		70 - 130	06/24/21 13:15	06/25/21 03:55	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 *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:49	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	06/24/21 14:20	06/25/21 18:49	1
o-Terphenyl	105		70 - 130	06/24/21 14:20	06/25/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.34		5.00	mg/Kg			06/28/21 23:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS16

Lab Sample ID: 890-858-16

Date Collected: 06/22/21 13:29

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
o-Xylene	0.00686		0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
Xylenes, Total	0.00686		0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:17	1
Total BTEX	0.00686		0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	06/24/21 13:15	06/25/21 05:17	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	06/24/21 13:15	06/25/21 05:17	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 *1	49.8	mg/Kg		06/24/21 14:20	06/25/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 19:10	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	06/24/21 14:20	06/25/21 19:10	1
o-Terphenyl	113		70 - 130	06/24/21 14:20	06/25/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		5.00	mg/Kg			06/28/21 23:50	1

Client Sample ID: FS17

Lab Sample ID: 890-858-17

Date Collected: 06/22/21 13:50

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 05:38	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/24/21 13:15	06/25/21 05:38	1
1,4-Difluorobenzene (Surr)	115		70 - 130	06/24/21 13:15	06/25/21 05:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS17

Lab Sample ID: 890-858-17

Date Collected: 06/22/21 13:50

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/24/21 14:20	06/25/21 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 19:31	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	06/24/21 14:20	06/25/21 19:31	1
o-Terphenyl	113		70 - 130	06/24/21 14:20	06/25/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		5.04	mg/Kg			06/28/21 21:31	1

Client Sample ID: FS18

Lab Sample ID: 890-858-18

Date Collected: 06/22/21 13:52

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:58	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	06/24/21 13:15	06/25/21 05:58	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/24/21 13:15	06/25/21 05:58	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 *1	49.9	mg/Kg		06/24/21 14:20	06/25/21 19:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 19:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 19:52	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/24/21 14:20	06/25/21 19:52	1
o-Terphenyl	106		70 - 130	06/24/21 14:20	06/25/21 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.8		4.99	mg/Kg			06/28/21 21:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS19

Lab Sample ID: 890-858-19

Date Collected: 06/22/21 13:55

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 06:19	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/24/21 13:15	06/25/21 06:19	1
1,4-Difluorobenzene (Surr)	119		70 - 130	06/24/21 13:15	06/25/21 06:19	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 *1	49.9	mg/Kg		06/24/21 14:20	06/25/21 20:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 20:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 20:13	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 14:20	06/25/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	06/24/21 14:20	06/25/21 20:13	1
o-Terphenyl	85		70 - 130	06/24/21 14:20	06/25/21 20:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.96	mg/Kg			06/28/21 21:53	1

Client Sample ID: FS20

Lab Sample ID: 890-858-20

Date Collected: 06/22/21 13:58

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/24/21 13:15	06/25/21 06:40	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/24/21 13:15	06/25/21 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	06/24/21 13:15	06/25/21 06:40	1
1,4-Difluorobenzene (Surr)	110		70 - 130	06/24/21 13:15	06/25/21 06:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS20

Lab Sample ID: 890-858-20

Date Collected: 06/22/21 13:58

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/24/21 14:20	06/25/21 20:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 20:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 20:34	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 14:20	06/25/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/24/21 14:20	06/25/21 20:34	1
o-Terphenyl	104		70 - 130	06/24/21 14:20	06/25/21 20:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		4.96	mg/Kg			06/28/21 21:59	1

Client Sample ID: FS21

Lab Sample ID: 890-858-21

Date Collected: 06/22/21 14:30

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 07:00	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/24/21 13:15	06/25/21 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/24/21 13:15	06/25/21 07:00	1
1,4-Difluorobenzene (Surr)	113		70 - 130	06/24/21 13:15	06/25/21 07:00	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		06/24/21 16:40	06/25/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 17:41	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/24/21 16:40	06/25/21 17:41	1
o-Terphenyl	108		70 - 130	06/24/21 16:40	06/25/21 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		4.99	mg/Kg			06/28/21 22:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS22

Lab Sample ID: 890-858-22

Date Collected: 06/22/21 14:32

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:21	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/24/21 13:15	06/25/21 07:21	1
1,4-Difluorobenzene (Surr)	114		70 - 130	06/24/21 13:15	06/25/21 07:21	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	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:07	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/24/21 16:40	06/25/21 18:07	1
o-Terphenyl	100		70 - 130	06/24/21 16:40	06/25/21 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		5.05	mg/Kg			06/28/21 22:21	1

Client Sample ID: FS23

Lab Sample ID: 890-858-23

Date Collected: 06/22/21 14:34

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
Ethylbenzene	0.00217		0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
o-Xylene	0.00200		0.00200	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:42	1
Total BTEX	0.00417		0.00401	mg/Kg		06/24/21 13:15	06/25/21 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/24/21 13:15	06/25/21 07:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/24/21 13:15	06/25/21 07:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS23

Lab Sample ID: 890-858-23

Date Collected: 06/22/21 14:34

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:28	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/24/21 16:40	06/25/21 18:28	1
o-Terphenyl	98		70 - 130	06/24/21 16:40	06/25/21 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		5.03	mg/Kg			06/28/21 22:26	1

Client Sample ID: SW01

Lab Sample ID: 890-858-24

Date Collected: 06/22/21 14:18

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0136		0.00200	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
Toluene	0.00253		0.00200	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
Ethylbenzene	0.0255		0.00200	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
o-Xylene	0.00679		0.00200	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
Xylenes, Total	0.00679		0.00401	mg/Kg		06/24/21 13:15	06/25/21 08:03	1
Total BTEX	0.0484		0.00401	mg/Kg		06/24/21 13:15	06/25/21 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	247	S1+	70 - 130	06/24/21 13:15	06/25/21 08:03	1
1,4-Difluorobenzene (Surr)	118		70 - 130	06/24/21 13:15	06/25/21 08:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 18:49	1
Total TPH	<49.9	U	49.9	mg/Kg		06/24/21 16:40	06/25/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	06/24/21 16:40	06/25/21 18:49	1
o-Terphenyl	95		70 - 130	06/24/21 16:40	06/25/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.0		5.02	mg/Kg			06/28/21 22:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: SW02

Lab Sample ID: 890-858-25

Date Collected: 06/22/21 14:20

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 08:24	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/24/21 13:15	06/25/21 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/24/21 13:15	06/25/21 08:24	1
1,4-Difluorobenzene (Surr)	114		70 - 130	06/24/21 13:15	06/25/21 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:10	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/24/21 16:40	06/25/21 19:10	1
o-Terphenyl	104		70 - 130	06/24/21 16:40	06/25/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.00	mg/Kg			06/29/21 13:49	1

Client Sample ID: SW03

Lab Sample ID: 890-858-26

Date Collected: 06/22/21 14:23

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
Toluene	<0.00202	U F2 F1	0.00202	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
Ethylbenzene	<0.00202	U F2	0.00202	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.00403	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
Xylenes, Total	<0.00403	U F2	0.00403	mg/Kg		06/24/21 13:04	06/25/21 00:03	1
Total BTEX	<0.00403	U F2 F1	0.00403	mg/Kg		06/24/21 13:04	06/25/21 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/24/21 13:04	06/25/21 00:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/24/21 13:04	06/25/21 00:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: SW03

Lab Sample ID: 890-858-26

Date Collected: 06/22/21 14:23

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:31	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/24/21 16:40	06/25/21 19:31	1
o-Terphenyl	99		70 - 130	06/24/21 16:40	06/25/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	371		24.9	mg/Kg			06/28/21 22:42	5

Client Sample ID: SW04

Lab Sample ID: 890-858-27

Date Collected: 06/22/21 14:26

Matrix: Solid

Date Received: 06/23/21 10:15

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/24/21 13:04	06/25/21 00:23	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/24/21 13:04	06/25/21 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/24/21 13:04	06/25/21 00:23	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/24/21 13:04	06/25/21 00:23	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		06/24/21 16:40	06/25/21 19:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/24/21 16:40	06/25/21 19:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/24/21 16:40	06/25/21 19:52	1
Total TPH	<49.8	U	49.8	mg/Kg		06/24/21 16:40	06/25/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/24/21 16:40	06/25/21 19:52	1
o-Terphenyl	100		70 - 130	06/24/21 16:40	06/25/21 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.95	mg/Kg			06/28/21 22:48	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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)
890-858-1	FS01	117	99
890-858-2	FS02	126	101
890-858-3	FS03	83	80
890-858-4	FS04	72	94
890-858-5	FS05	86	90
890-858-6	FS06	108	103
890-858-6 MS	FS06	128	116
890-858-6 MSD	FS06	105	107
890-858-7	FS07	122	118
890-858-8	FS08	133 S1+	98
890-858-9	FS09	173 S1+	86
890-858-10	FS10	287 S1+	270 S1+
890-858-11	FS11	134 S1+	102
890-858-12	FS12	97	101
890-858-13	FS13	113	112
890-858-14	FS14	115	118
890-858-15	FS15	119	114
890-858-16	FS16	135 S1+	58 S1-
890-858-17	FS17	113	115
890-858-18	FS18	132 S1+	84
890-858-19	FS19	111	119
890-858-20	FS20	117	110
890-858-21	FS21	103	113
890-858-22	FS22	111	114
890-858-23	FS23	99	104
890-858-24	SW01	247 S1+	118
890-858-25	SW02	114	114
890-858-26	SW03	111	99
890-858-26 MS	SW03	155 S1+	87
890-858-26 MSD	SW03	105	93
890-858-27	SW04	114	99
LCS 880-4588/1-A	Lab Control Sample	118	108
LCS 880-4589/1-A	Lab Control Sample	103	95
LCS 880-4591/1-A	Lab Control Sample	97	91
LCSD 880-4588/2-A	Lab Control Sample Dup	115	110
LCSD 880-4589/2-A	Lab Control Sample Dup	105	95
LCSD 880-4591/2-A	Lab Control Sample Dup	110	105
MB 880-4498/5-A	Method Blank	112	93
MB 880-4552/5-A	Method Blank	114	95
MB 880-4573/9	Method Blank	111	96
MB 880-4588/5-A	Method Blank	102	95
MB 880-4589/5-A	Method Blank	111	92
MB 880-4591/5-A	Method Blank	112	79

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-858-1	FS01	79	81
890-858-1 MS	FS01	77	71
890-858-1 MSD	FS01	77	70
890-858-2	FS02	92	100
890-858-3	FS03	87	101
890-858-4	FS04	95	93
890-858-5	FS05	94	103
890-858-6	FS06	78	80
890-858-7	FS07	96	100
890-858-8	FS08	90	89
890-858-9	FS09	87	85
890-858-10	FS10	102	100
890-858-11	FS11	114	120
890-858-12	FS12	89	97
890-858-13	FS13	105	115
890-858-14	FS14	87	95
890-858-15	FS15	95	105
890-858-16	FS16	112	113
890-858-17	FS17	111	113
890-858-18	FS18	104	106
890-858-19	FS19	81	85
890-858-20	FS20	98	104
890-858-21	FS21	99	108
890-858-22	FS22	91	100
890-858-23	FS23	90	98
890-858-24	SW01	89	95
890-858-25	SW02	96	104
890-858-26	SW03	93	99
890-858-27	SW04	93	100
LCS 880-4594/2-A	Lab Control Sample	109	104
LCS 880-4599/2-A	Lab Control Sample	115	112
LCS 880-4602/2-A	Lab Control Sample	96	100
LCSD 880-4594/3-A	Lab Control Sample Dup	93	92
LCSD 880-4599/3-A	Lab Control Sample Dup	112	106
LCSD 880-4602/3-A	Lab Control Sample Dup	99	104
MB 880-4594/1-A	Method Blank	105	115
MB 880-4599/1-A	Method Blank	103	104
MB 880-4602/1-A	Method Blank	98	109

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4498/5-A

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4498

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/23/21 09:41	06/24/21 11:58	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/23/21 09:41	06/24/21 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/23/21 09:41	06/24/21 11:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/23/21 09:41	06/24/21 11:58	1

Lab Sample ID: MB 880-4552/5-A

Matrix: Solid

Analysis Batch: 4554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4552

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 08:50	06/24/21 12:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 08:50	06/24/21 12:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/24/21 08:50	06/24/21 12:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/24/21 08:50	06/24/21 12:30	1

Lab Sample ID: MB 880-4573/9

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			06/24/21 13:53	1
Toluene	<0.00200	U	0.00200	mg/Kg			06/24/21 13:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			06/24/21 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			06/24/21 13:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			06/24/21 13:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			06/24/21 13:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/24/21 13:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		06/24/21 13:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130		06/24/21 13:53	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: MB 880-4588/5-A

Matrix: Solid

Analysis Batch: 4554

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4588

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:18	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/24/21 13:04	06/24/21 23:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/24/21 13:04	06/24/21 23:18	1

Lab Sample ID: LCS 880-4588/1-A

Matrix: Solid

Analysis Batch: 4554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1100		mg/Kg		110	70 - 130
Toluene	0.100	0.1026		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2294		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1162		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-4588/2-A

Matrix: Solid

Analysis Batch: 4554

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	0	35
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130	2	35
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: MB 880-4589/5-A

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4589

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:34	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: MB 880-4589/5-A

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4589

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:04	06/24/21 23:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:34	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:04	06/24/21 23:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/24/21 13:04	06/24/21 23:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/24/21 13:04	06/24/21 23:34	1

Lab Sample ID: LCS 880-4589/1-A

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09364		mg/Kg		94	70 - 130
Toluene	0.100	0.1056		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-4589/2-A

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09326		mg/Kg		93	70 - 130	0	35
Toluene	0.100	0.1075		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2271		mg/Kg		114	70 - 130	1	35
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-858-26 MS

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 4589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F2 F1	0.0998	0.03782	F1	mg/Kg		38	70 - 130
Toluene	<0.00202	U F2 F1	0.0998	0.05693	F1	mg/Kg		57	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: 890-858-26 MS

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 4589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U F2	0.0998	0.06956		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.200	0.1380	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00202	U	0.0998	0.07390		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-858-26 MSD

Matrix: Solid

Analysis Batch: 4550

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 4589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0990	0.08720	F2	mg/Kg		88	70 - 130	79	35
Toluene	<0.00202	U F2 F1	0.0990	0.1007	F2	mg/Kg		102	70 - 130	55	35
Ethylbenzene	<0.00202	U F2	0.0990	0.1018	F2	mg/Kg		103	70 - 130	38	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.198	0.2111	F2	mg/Kg		107	70 - 130	42	35
o-Xylene	<0.00202	U	0.0990	0.1035		mg/Kg		105	70 - 130	33	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-4591/5-A

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4591

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 00:28	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/24/21 13:15	06/25/21 00:28	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/24/21 13:15	06/25/21 00:28	1
1,4-Difluorobenzene (Surr)	79		70 - 130	06/24/21 13:15	06/25/21 00:28	1

Lab Sample ID: LCS 880-4591/1-A

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09261		mg/Kg		93	70 - 130
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09202		mg/Kg		92	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-4591/1-A

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.1628		mg/Kg		81	70 - 130
o-Xylene	0.100	0.09456		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-4591/2-A

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09703		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.1027		mg/Kg		103	70 - 130	11	35
Ethylbenzene	0.100	0.09659		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1782		mg/Kg		89	70 - 130	9	35
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-858-6 MS

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 4591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.0998	0.07595		mg/Kg		76	70 - 130
Toluene	<0.00198	U F1	0.0998	0.07187		mg/Kg		72	70 - 130
Ethylbenzene	<0.00198	U F1	0.0998	0.07829		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.1310	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00198	U F1	0.0998	0.07819		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 890-858-6 MSD

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 4591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U F2 F1	0.0994	0.04265	F2 F1	mg/Kg		43	70 - 130	56	35
Toluene	<0.00198	U F1	0.0994	0.05372	F1	mg/Kg		54	70 - 130	29	35
Ethylbenzene	<0.00198	U F1	0.0994	0.05762	F1	mg/Kg		58	70 - 130	30	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.1071	F1	mg/Kg		54	70 - 130	20	35
o-Xylene	<0.00198	U F1	0.0994	0.06129	F1	mg/Kg		61	70 - 130	24	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: 890-858-6 MSD

Matrix: Solid

Analysis Batch: 4573

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 4591

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

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

Lab Sample ID: MB 880-4594/1-A

Matrix: Solid

Analysis Batch: 4611

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4594

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	144.6		50.0	mg/Kg		06/24/21 14:20	06/25/21 11:38	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 11:38	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:20	06/25/21 11:38	1	
Total TPH	144.6		50.0	mg/Kg		06/24/21 14:20	06/25/21 11:38	1	

Surrogate	MB	MB				Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier	Limits						
1-Chlorooctane	105		70 - 130			06/24/21 14:20	06/25/21 11:38	1	
o-Terphenyl	115		70 - 130			06/24/21 14:20	06/25/21 11:38	1	

Lab Sample ID: LCS 880-4594/2-A

Matrix: Solid

Analysis Batch: 4611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4594

Analyte	Spike	LCS	LCS					%Rec.	
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1079		mg/Kg		108	70 - 130		

Surrogate	LCS	LCS							
	%Recovery	Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: LCSD 880-4594/3-A

Matrix: Solid

Analysis Batch: 4611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4594

Analyte	Spike	LCSD	LCSD					%Rec.	RPD	
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	850.0	*1	mg/Kg		85	70 - 130	22	20	
Diesel Range Organics (Over C10-C28)	1000	946.9		mg/Kg		95	70 - 130	13	20	

Surrogate	LCSD	LCSD								
	%Recovery	Qualifier	Limits							
1-Chlorooctane	93		70 - 130							
o-Terphenyl	92		70 - 130							

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: 890-858-1 MS

Matrix: Solid

Analysis Batch: 4611

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 4594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1 F1	999	698.8		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	999	784.8		mg/Kg		79	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	77		70 - 130						
o-Terphenyl	71		70 - 130						

Lab Sample ID: 890-858-1 MSD

Matrix: Solid

Analysis Batch: 4611

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 4594

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	<49.7	U *1 F1	997	689.5	F1	mg/Kg		69	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	784.5		mg/Kg		79	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	77		70 - 130								
o-Terphenyl	70		70 - 130								

Lab Sample ID: MB 880-4599/1-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4599

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		06/24/21 14:55	06/24/21 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 14:55	06/24/21 21:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 14:55	06/24/21 21:32	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 14:55	06/24/21 21:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			06/24/21 14:55	06/24/21 21:32	1
o-Terphenyl	104		70 - 130			06/24/21 14:55	06/24/21 21:32	1

Lab Sample ID: LCS 880-4599/2-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	956.1		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1055		mg/Kg		105	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-4599/2-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4599

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-4599/3-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.2		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	999.2		mg/Kg		100	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: MB 880-4602/1-A

Matrix: Solid

Analysis Batch: 4609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4602

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		06/24/21 16:40	06/25/21 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 11:38	1
Total TPH	<50.0	U	50.0	mg/Kg		06/24/21 16:40	06/25/21 11:38	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	98		70 - 130	06/24/21 16:40	06/25/21 11:38	1		
o-Terphenyl	109		70 - 130	06/24/21 16:40	06/25/21 11:38	1		

Lab Sample ID: LCS 880-4602/2-A

Matrix: Solid

Analysis Batch: 4609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4602

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	894.5		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1034		mg/Kg		103	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	100		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-4602/3-A

Matrix: Solid

Analysis Batch: 4609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4602

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	997.5		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1055		mg/Kg		105	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	104		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4581/1-A

Matrix: Solid

Analysis Batch: 4656

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			06/28/21 21:37	1

Lab Sample ID: LCS 880-4581/2-A

Matrix: Solid

Analysis Batch: 4656

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	250	242.5		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-4581/3-A

Matrix: Solid

Analysis Batch: 4656

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	252	245.5		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-858-7 MS

Matrix: Solid

Analysis Batch: 4656

Client Sample ID: FS07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD
Chloride	7.72		249	279.0		mg/Kg		109	90 - 110	

Lab Sample ID: 890-858-7 MSD

Matrix: Solid

Analysis Batch: 4656

Client Sample ID: FS07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.72		249	279.2		mg/Kg		109	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-4582/1-A

Matrix: Solid

Analysis Batch: 4659

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			06/28/21 21:15	1

Lab Sample ID: LCS 880-4582/2-A

Matrix: Solid

Analysis Batch: 4659

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-4582/3-A

Matrix: Solid

Analysis Batch: 4659

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	242.3		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-858-17 MS

Matrix: Solid

Analysis Batch: 4659

Client Sample ID: FS17

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	24.8		252	293.0		mg/Kg		106	90 - 110

Lab Sample ID: 890-858-17 MSD

Matrix: Solid

Analysis Batch: 4659

Client Sample ID: FS17

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	24.8		252	274.6		mg/Kg		99	90 - 110	6	20

Lab Sample ID: 890-858-27 MS

Matrix: Solid

Analysis Batch: 4659

Client Sample ID: SW04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14.9		248	261.4		mg/Kg		100	90 - 110

Lab Sample ID: 890-858-27 MSD

Matrix: Solid

Analysis Batch: 4659

Client Sample ID: SW04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14.9		248	252.7		mg/Kg		96	90 - 110	3	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

GC VOA

Prep Batch: 4498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4498/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 4550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-26	SW03	Total/NA	Solid	8021B	4589
890-858-27	SW04	Total/NA	Solid	8021B	4589
MB 880-4498/5-A	Method Blank	Total/NA	Solid	8021B	4498
MB 880-4589/5-A	Method Blank	Total/NA	Solid	8021B	4589
LCS 880-4589/1-A	Lab Control Sample	Total/NA	Solid	8021B	4589
LCSD 880-4589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4589
890-858-26 MS	SW03	Total/NA	Solid	8021B	4589
890-858-26 MSD	SW03	Total/NA	Solid	8021B	4589

Prep Batch: 4552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4552/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 4554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Total/NA	Solid	8021B	4588
890-858-2	FS02	Total/NA	Solid	8021B	4588
890-858-3	FS03	Total/NA	Solid	8021B	4588
890-858-4	FS04	Total/NA	Solid	8021B	4588
890-858-5	FS05	Total/NA	Solid	8021B	4588
MB 880-4552/5-A	Method Blank	Total/NA	Solid	8021B	4552
MB 880-4588/5-A	Method Blank	Total/NA	Solid	8021B	4588
LCS 880-4588/1-A	Lab Control Sample	Total/NA	Solid	8021B	4588
LCSD 880-4588/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4588

Analysis Batch: 4573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-6	FS06	Total/NA	Solid	8021B	4591
890-858-7	FS07	Total/NA	Solid	8021B	4591
890-858-8	FS08	Total/NA	Solid	8021B	4591
890-858-9	FS09	Total/NA	Solid	8021B	4591
890-858-10	FS10	Total/NA	Solid	8021B	4591
890-858-11	FS11	Total/NA	Solid	8021B	4591
890-858-12	FS12	Total/NA	Solid	8021B	4591
890-858-13	FS13	Total/NA	Solid	8021B	4591
890-858-14	FS14	Total/NA	Solid	8021B	4591
890-858-15	FS15	Total/NA	Solid	8021B	4591
890-858-16	FS16	Total/NA	Solid	8021B	4591
890-858-17	FS17	Total/NA	Solid	8021B	4591
890-858-18	FS18	Total/NA	Solid	8021B	4591
890-858-19	FS19	Total/NA	Solid	8021B	4591
890-858-20	FS20	Total/NA	Solid	8021B	4591
890-858-21	FS21	Total/NA	Solid	8021B	4591
890-858-22	FS22	Total/NA	Solid	8021B	4591
890-858-23	FS23	Total/NA	Solid	8021B	4591
890-858-24	SW01	Total/NA	Solid	8021B	4591
890-858-25	SW02	Total/NA	Solid	8021B	4591

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 4573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4573/9	Method Blank	Total/NA	Solid	8021B	
MB 880-4591/5-A	Method Blank	Total/NA	Solid	8021B	4591
LCS 880-4591/1-A	Lab Control Sample	Total/NA	Solid	8021B	4591
LCSD 880-4591/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4591
890-858-6 MS	FS06	Total/NA	Solid	8021B	4591
890-858-6 MSD	FS06	Total/NA	Solid	8021B	4591

Prep Batch: 4588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Total/NA	Solid	5035	
890-858-2	FS02	Total/NA	Solid	5035	
890-858-3	FS03	Total/NA	Solid	5035	
890-858-4	FS04	Total/NA	Solid	5035	
890-858-5	FS05	Total/NA	Solid	5035	
MB 880-4588/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4588/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4588/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 4589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-26	SW03	Total/NA	Solid	5035	
890-858-27	SW04	Total/NA	Solid	5035	
MB 880-4589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-858-26 MS	SW03	Total/NA	Solid	5035	
890-858-26 MSD	SW03	Total/NA	Solid	5035	

Prep Batch: 4591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-6	FS06	Total/NA	Solid	5035	
890-858-7	FS07	Total/NA	Solid	5035	
890-858-8	FS08	Total/NA	Solid	5035	
890-858-9	FS09	Total/NA	Solid	5035	
890-858-10	FS10	Total/NA	Solid	5035	
890-858-11	FS11	Total/NA	Solid	5035	
890-858-12	FS12	Total/NA	Solid	5035	
890-858-13	FS13	Total/NA	Solid	5035	
890-858-14	FS14	Total/NA	Solid	5035	
890-858-15	FS15	Total/NA	Solid	5035	
890-858-16	FS16	Total/NA	Solid	5035	
890-858-17	FS17	Total/NA	Solid	5035	
890-858-18	FS18	Total/NA	Solid	5035	
890-858-19	FS19	Total/NA	Solid	5035	
890-858-20	FS20	Total/NA	Solid	5035	
890-858-21	FS21	Total/NA	Solid	5035	
890-858-22	FS22	Total/NA	Solid	5035	
890-858-23	FS23	Total/NA	Solid	5035	
890-858-24	SW01	Total/NA	Solid	5035	
890-858-25	SW02	Total/NA	Solid	5035	
MB 880-4591/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 4591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-4591/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4591/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-858-6 MS	FS06	Total/NA	Solid	5035	
890-858-6 MSD	FS06	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-7	FS07	Total/NA	Solid	8015B NM	4599
890-858-8	FS08	Total/NA	Solid	8015B NM	4599
890-858-9	FS09	Total/NA	Solid	8015B NM	4599
MB 880-4599/1-A	Method Blank	Total/NA	Solid	8015B NM	4599
LCS 880-4599/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4599
LCSD 880-4599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4599

Prep Batch: 4594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Total/NA	Solid	8015NM Prep	
890-858-2	FS02	Total/NA	Solid	8015NM Prep	
890-858-3	FS03	Total/NA	Solid	8015NM Prep	
890-858-4	FS04	Total/NA	Solid	8015NM Prep	
890-858-5	FS05	Total/NA	Solid	8015NM Prep	
890-858-6	FS06	Total/NA	Solid	8015NM Prep	
890-858-10	FS10	Total/NA	Solid	8015NM Prep	
890-858-11	FS11	Total/NA	Solid	8015NM Prep	
890-858-12	FS12	Total/NA	Solid	8015NM Prep	
890-858-13	FS13	Total/NA	Solid	8015NM Prep	
890-858-14	FS14	Total/NA	Solid	8015NM Prep	
890-858-15	FS15	Total/NA	Solid	8015NM Prep	
890-858-16	FS16	Total/NA	Solid	8015NM Prep	
890-858-17	FS17	Total/NA	Solid	8015NM Prep	
890-858-18	FS18	Total/NA	Solid	8015NM Prep	
890-858-19	FS19	Total/NA	Solid	8015NM Prep	
890-858-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-4594/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4594/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-858-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-858-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 4599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-7	FS07	Total/NA	Solid	8015NM Prep	
890-858-8	FS08	Total/NA	Solid	8015NM Prep	
890-858-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-4599/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4599/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 4602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-21	FS21	Total/NA	Solid	8015NM Prep	
890-858-22	FS22	Total/NA	Solid	8015NM Prep	
890-858-23	FS23	Total/NA	Solid	8015NM Prep	
890-858-24	SW01	Total/NA	Solid	8015NM Prep	
890-858-25	SW02	Total/NA	Solid	8015NM Prep	
890-858-26	SW03	Total/NA	Solid	8015NM Prep	
890-858-27	SW04	Total/NA	Solid	8015NM Prep	
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-21	FS21	Total/NA	Solid	8015B NM	4602
890-858-22	FS22	Total/NA	Solid	8015B NM	4602
890-858-23	FS23	Total/NA	Solid	8015B NM	4602
890-858-24	SW01	Total/NA	Solid	8015B NM	4602
890-858-25	SW02	Total/NA	Solid	8015B NM	4602
890-858-26	SW03	Total/NA	Solid	8015B NM	4602
890-858-27	SW04	Total/NA	Solid	8015B NM	4602
MB 880-4602/1-A	Method Blank	Total/NA	Solid	8015B NM	4602
LCS 880-4602/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4602
LCSD 880-4602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4602

Analysis Batch: 4611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Total/NA	Solid	8015B NM	4594
890-858-2	FS02	Total/NA	Solid	8015B NM	4594
890-858-3	FS03	Total/NA	Solid	8015B NM	4594
890-858-4	FS04	Total/NA	Solid	8015B NM	4594
890-858-5	FS05	Total/NA	Solid	8015B NM	4594
890-858-6	FS06	Total/NA	Solid	8015B NM	4594
890-858-10	FS10	Total/NA	Solid	8015B NM	4594
890-858-11	FS11	Total/NA	Solid	8015B NM	4594
890-858-12	FS12	Total/NA	Solid	8015B NM	4594
890-858-13	FS13	Total/NA	Solid	8015B NM	4594
890-858-14	FS14	Total/NA	Solid	8015B NM	4594
890-858-15	FS15	Total/NA	Solid	8015B NM	4594
890-858-16	FS16	Total/NA	Solid	8015B NM	4594
890-858-17	FS17	Total/NA	Solid	8015B NM	4594
890-858-18	FS18	Total/NA	Solid	8015B NM	4594
890-858-19	FS19	Total/NA	Solid	8015B NM	4594
890-858-20	FS20	Total/NA	Solid	8015B NM	4594
MB 880-4594/1-A	Method Blank	Total/NA	Solid	8015B NM	4594
LCS 880-4594/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4594
LCSD 880-4594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4594
890-858-1 MS	FS01	Total/NA	Solid	8015B NM	4594
890-858-1 MSD	FS01	Total/NA	Solid	8015B NM	4594

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

HPLC/IC

Leach Batch: 4581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Soluble	Solid	DI Leach	
890-858-2	FS02	Soluble	Solid	DI Leach	
890-858-3	FS03	Soluble	Solid	DI Leach	
890-858-4	FS04	Soluble	Solid	DI Leach	
890-858-5	FS05	Soluble	Solid	DI Leach	
890-858-6	FS06	Soluble	Solid	DI Leach	
890-858-7	FS07	Soluble	Solid	DI Leach	
890-858-8	FS08	Soluble	Solid	DI Leach	
890-858-9	FS09	Soluble	Solid	DI Leach	
890-858-10	FS10	Soluble	Solid	DI Leach	
890-858-11	FS11	Soluble	Solid	DI Leach	
890-858-12	FS12	Soluble	Solid	DI Leach	
890-858-13	FS13	Soluble	Solid	DI Leach	
890-858-14	FS14	Soluble	Solid	DI Leach	
890-858-15	FS15	Soluble	Solid	DI Leach	
890-858-16	FS16	Soluble	Solid	DI Leach	
MB 880-4581/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4581/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4581/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-858-7 MS	FS07	Soluble	Solid	DI Leach	
890-858-7 MSD	FS07	Soluble	Solid	DI Leach	

Leach Batch: 4582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-17	FS17	Soluble	Solid	DI Leach	
890-858-18	FS18	Soluble	Solid	DI Leach	
890-858-19	FS19	Soluble	Solid	DI Leach	
890-858-20	FS20	Soluble	Solid	DI Leach	
890-858-21	FS21	Soluble	Solid	DI Leach	
890-858-22	FS22	Soluble	Solid	DI Leach	
890-858-23	FS23	Soluble	Solid	DI Leach	
890-858-24	SW01	Soluble	Solid	DI Leach	
890-858-25	SW02	Soluble	Solid	DI Leach	
890-858-26	SW03	Soluble	Solid	DI Leach	
890-858-27	SW04	Soluble	Solid	DI Leach	
MB 880-4582/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4582/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4582/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-858-17 MS	FS17	Soluble	Solid	DI Leach	
890-858-17 MSD	FS17	Soluble	Solid	DI Leach	
890-858-27 MS	SW04	Soluble	Solid	DI Leach	
890-858-27 MSD	SW04	Soluble	Solid	DI Leach	

Analysis Batch: 4656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-1	FS01	Soluble	Solid	300.0	4581
890-858-2	FS02	Soluble	Solid	300.0	4581
890-858-3	FS03	Soluble	Solid	300.0	4581
890-858-4	FS04	Soluble	Solid	300.0	4581
890-858-5	FS05	Soluble	Solid	300.0	4581
890-858-6	FS06	Soluble	Solid	300.0	4581

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 4656 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-7	FS07	Soluble	Solid	300.0	4581
890-858-8	FS08	Soluble	Solid	300.0	4581
890-858-9	FS09	Soluble	Solid	300.0	4581
890-858-10	FS10	Soluble	Solid	300.0	4581
890-858-11	FS11	Soluble	Solid	300.0	4581
890-858-12	FS12	Soluble	Solid	300.0	4581
890-858-13	FS13	Soluble	Solid	300.0	4581
890-858-14	FS14	Soluble	Solid	300.0	4581
890-858-15	FS15	Soluble	Solid	300.0	4581
890-858-16	FS16	Soluble	Solid	300.0	4581
MB 880-4581/1-A	Method Blank	Soluble	Solid	300.0	4581
LCS 880-4581/2-A	Lab Control Sample	Soluble	Solid	300.0	4581
LCSD 880-4581/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4581
890-858-7 MS	FS07	Soluble	Solid	300.0	4581
890-858-7 MSD	FS07	Soluble	Solid	300.0	4581

Analysis Batch: 4659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-858-17	FS17	Soluble	Solid	300.0	4582
890-858-18	FS18	Soluble	Solid	300.0	4582
890-858-19	FS19	Soluble	Solid	300.0	4582
890-858-20	FS20	Soluble	Solid	300.0	4582
890-858-21	FS21	Soluble	Solid	300.0	4582
890-858-22	FS22	Soluble	Solid	300.0	4582
890-858-23	FS23	Soluble	Solid	300.0	4582
890-858-24	SW01	Soluble	Solid	300.0	4582
890-858-25	SW02	Soluble	Solid	300.0	4582
890-858-26	SW03	Soluble	Solid	300.0	4582
890-858-27	SW04	Soluble	Solid	300.0	4582
MB 880-4582/1-A	Method Blank	Soluble	Solid	300.0	4582
LCS 880-4582/2-A	Lab Control Sample	Soluble	Solid	300.0	4582
LCSD 880-4582/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4582
890-858-17 MS	FS17	Soluble	Solid	300.0	4582
890-858-17 MSD	FS17	Soluble	Solid	300.0	4582
890-858-27 MS	SW04	Soluble	Solid	300.0	4582
890-858-27 MSD	SW04	Soluble	Solid	300.0	4582

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS01

Lab Sample ID: 890-858-1

Date Collected: 06/22/21 10:12

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4588	06/24/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	4554	06/25/21 01:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 12:41	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:17	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-858-2

Date Collected: 06/22/21 10:15

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4588	06/24/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	4554	06/25/21 01:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 13:44	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:30	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-858-3

Date Collected: 06/22/21 10:18

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4588	06/24/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	4554	06/25/21 01:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 14:05	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:35	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-858-4

Date Collected: 06/22/21 10:20

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4588	06/24/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	4554	06/25/21 02:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 14:31	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS05

Lab Sample ID: 890-858-5

Date Collected: 06/22/21 10:28

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4588	06/24/21 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	4554	06/25/21 02:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 14:52	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:44	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-858-6

Date Collected: 06/22/21 10:30

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 00:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 15:13	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:48	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-858-7

Date Collected: 06/22/21 10:32

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 01:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			4599	06/24/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/25/21 05:30	AJ	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 22:53	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-858-8

Date Collected: 06/22/21 10:34

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 01:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			4599	06/24/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/25/21 05:51	AJ	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS09

Lab Sample ID: 890-858-9

Date Collected: 06/22/21 12:50

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 01:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			4599	06/24/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/25/21 06:12	AJ	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:10	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-858-10

Date Collected: 06/22/21 12:52

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 02:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 16:38	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:24	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-858-11

Date Collected: 06/22/21 12:55

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 02:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 17:20	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:28	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-858-12

Date Collected: 06/22/21 14:29

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 02:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 17:41	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS13

Lab Sample ID: 890-858-13

Date Collected: 06/22/21 13:22

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 03:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 18:07	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:37	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-858-14

Date Collected: 06/22/21 13:25

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 03:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 18:28	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:41	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-858-15

Date Collected: 06/22/21 13:27

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 03:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 18:49	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:46	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-858-16

Date Collected: 06/22/21 13:29

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 05:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 19:10	AM	XEN MID
Soluble	Leach	DI Leach			4581	06/24/21 11:59	CH	XEN MID
Soluble	Analysis	300.0		1	4656	06/28/21 23:50	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS17

Lab Sample ID: 890-858-17

Date Collected: 06/22/21 13:50

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 05:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 19:31	AM	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 21:31	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-858-18

Date Collected: 06/22/21 13:52

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 05:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 19:52	AM	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 21:48	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-858-19

Date Collected: 06/22/21 13:55

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 06:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 20:13	AM	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 21:53	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-858-20

Date Collected: 06/22/21 13:58

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 06:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			4594	06/24/21 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4611	06/25/21 20:34	AM	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 21:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: FS21

Lab Sample ID: 890-858-21

Date Collected: 06/22/21 14:30

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 07:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 22:04	CH	XEN MID

Client Sample ID: FS22

Lab Sample ID: 890-858-22

Date Collected: 06/22/21 14:32

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 07:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 22:21	CH	XEN MID

Client Sample ID: FS23

Lab Sample ID: 890-858-23

Date Collected: 06/22/21 14:34

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 07:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 22:26	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-858-24

Date Collected: 06/22/21 14:18

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 08:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 22:31	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Client Sample ID: SW02

Lab Sample ID: 890-858-25

Date Collected: 06/22/21 14:20

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4591	06/24/21 13:15	KL	XEN MID
Total/NA	Analysis	8021B		1	4573	06/25/21 08:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/29/21 13:49	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-858-26

Date Collected: 06/22/21 14:23

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4589	06/24/21 13:04	MR	XEN MID
Total/NA	Analysis	8021B		1	4550	06/25/21 00:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		5	4659	06/28/21 22:42	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-858-27

Date Collected: 06/22/21 14:26

Matrix: Solid

Date Received: 06/23/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4589	06/24/21 13:04	MR	XEN MID
Total/NA	Analysis	8021B		1	4550	06/25/21 00:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			4602	06/24/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4609	06/25/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			4582	06/24/21 12:04	CH	XEN MID
Soluble	Analysis	300.0		1	4659	06/28/21 22:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: JRU DI IA Ennis

Job ID: 890-858-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-858-1	FS01	Solid	06/22/21 10:12	06/23/21 10:15	- 2
890-858-2	FS02	Solid	06/22/21 10:15	06/23/21 10:15	- 2
890-858-3	FS03	Solid	06/22/21 10:18	06/23/21 10:15	- 2
890-858-4	FS04	Solid	06/22/21 10:20	06/23/21 10:15	- 2
890-858-5	FS05	Solid	06/22/21 10:28	06/23/21 10:15	- 2
890-858-6	FS06	Solid	06/22/21 10:30	06/23/21 10:15	- 2
890-858-7	FS07	Solid	06/22/21 10:32	06/23/21 10:15	- 2
890-858-8	FS08	Solid	06/22/21 10:34	06/23/21 10:15	- 2
890-858-9	FS09	Solid	06/22/21 12:50	06/23/21 10:15	- 2
890-858-10	FS10	Solid	06/22/21 12:52	06/23/21 10:15	- 2
890-858-11	FS11	Solid	06/22/21 12:55	06/23/21 10:15	- 2
890-858-12	FS12	Solid	06/22/21 14:29	06/23/21 10:15	- 2.5
890-858-13	FS13	Solid	06/22/21 13:22	06/23/21 10:15	- 2
890-858-14	FS14	Solid	06/22/21 13:25	06/23/21 10:15	- 2
890-858-15	FS15	Solid	06/22/21 13:27	06/23/21 10:15	- 2
890-858-16	FS16	Solid	06/22/21 13:29	06/23/21 10:15	- 2
890-858-17	FS17	Solid	06/22/21 13:50	06/23/21 10:15	- 2
890-858-18	FS18	Solid	06/22/21 13:52	06/23/21 10:15	- 2
890-858-19	FS19	Solid	06/22/21 13:55	06/23/21 10:15	- 2
890-858-20	FS20	Solid	06/22/21 13:58	06/23/21 10:15	- 2
890-858-21	FS21	Solid	06/22/21 14:30	06/23/21 10:15	- 2
890-858-22	FS22	Solid	06/22/21 14:32	06/23/21 10:15	- 2
890-858-23	FS23	Solid	06/22/21 14:34	06/23/21 10:15	- 2
890-858-24	SW01	Solid	06/22/21 14:18	06/23/21 10:15	0 - 2
890-858-25	SW02	Solid	06/22/21 14:20	06/23/21 10:15	0 - 2
890-858-26	SW03	Solid	06/22/21 14:23	06/23/21 10:15	0 - 2
890-858-27	SW04	Solid	06/22/21 14:26	06/23/21 10:15	0 - 2

Eurofins Xenco, Carlsbad



Environment Testing

Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	Kale Jennings	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greene St
City, State Zip:	Midland, TX 79705	City, State Zip:	Carlsbad, NM 88220
Phone:	(817) 683-2503	Email:	Kale.jennings@wsp.com

Work Order Comments			
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		
State of Project:			
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐		
Deliverables:	EDD ☐ ADAPT ☐ Other: _____		

Project Name:	JRU DIA Ennis	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE012921010	Due Date:			
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Fatima Smith				
P.O. #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No			
Samples Received In tact:	☒ Yes ☐ No	Thermometer ID: 1104937			
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor: 0.2143			
Sample Custody Seals:	Yes ☒ No ☐ N/A	Temperature Reading: 6.43			
Total Containers:	Corrected Temperature: 5.6				

890-658 Chain of Custody



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	BTEX	Chloride										Sample Comments
FS01	S	6/22/21	1012	2'		1													
FS02			1015																
FS03			1018																
FS04			1020																
FS05			1028																
FS06			1030																
FS07			1032																
FS08			1034																
FS09			1250																
FS10			1252																

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 Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from the client company to Eurofins Xenco for the analysis and testing services. The signature standard, terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>fat</i>	<i>fat</i>	6/21/10/12	<i>fat</i>	<i>fat</i>	6-23-21 1015

Incident: NAPP2100832034 API: 30-015-43236

CC: 1632471001



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Little
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North Astor Street	Address:	3104 E Boone St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad NM 88220
Phone:	(817) 683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	JRU D11A Ennis	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE01292101D	Due Date:			
Project Location:	Echly county	TAI starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Fatima Smith				
PO #:					
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:		Yes No	Thermometer ID:		
Cooler Custody Seals:		Yes No N/A	Correction Factor:		
Sample Custody Seals:		Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS11	S	6/22/21	12:55	2'		1	TPH (EPA 8015)		None: NO DI Water: H ₂ O	
FS12			14:29	2.5'			BTEX (EPA 0-8021)		Cool: Cool MeOH: Me	
FS13			13:22	2'			Chloride (EPA 300.0)		HCL: HC HNO ₃ : HN	
FS14			13:25						H ₂ SO ₄ : H ₂ NaOH: Na	
FS15			13:27						H ₃ PO ₄ : HP	
FS16			13:29						NaHSO ₄ : NABIS	
FS17			13:50						Na ₂ S ₂ O ₃ : NaSO ₃	
FS18			13:52						Zn Acetate+NaOH: Zn	
FS19			13:55						NaOH+Ascorbic Acid: SAPC	
FS20			13:58							

Total 2007 / 6010 2008 / 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 Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	6/23/21 10:13	<i>[Signature]</i>	<i>[Signature]</i>	6/23/21 10:15

Incident: NAPP2100832034
CC: 1632471001
API: 30-015-432316



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Page 3 of 3

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Little
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(817) 663-2503	Email:	Kalei.jennings@wsp.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: _____

Project Name:	JRUDI VA Ennis	Tum Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	TE012921010	☒ Routine ☐ Rush			None: NO DI Water: H ₂ O
Project Location:	Eddy County	Due Date:			Cool: Cool MeOH: Me
Sampler's Name:	Editha Smith	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO ₃ : HN
P.O. #:					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: ☒ No ☐ Yes	Wet Ice: ☒ No ☐ Yes			H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID: 77M-001			NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes ☐ No ☐ N/A	Correction Factor:			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:	5.0-2		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	5.1		NaOH+Ascorbic Acid: SANC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 3000)	Sample Comments
FS21	S	6/22/21	1430	2'		1				
FS22			1432	2'						
FS23			1434	2'						
SW01			1418	0-2'						
SW02			1420	0-2'						
SW03			1423	0-2'						
SW04			1426	0-2'						

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 Hg: 1631 / 245.1 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	6/15/21 1614	<i>[Signature]</i>	<i>[Signature]</i>	6-23-21 1615

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-858-1

SDG Number: Eddy County

Login Number: 858

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-858-1

SDG Number: Eddy County

Login Number: 858

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 06/24/21 12:07 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 44314

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 44314
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	9/28/2021