

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	nAPP2100834529
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)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.20805 Longitude -103.77121
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 15 TWR CTB	Site Type CTB
Date Release Discovered 12-29-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	22	24S	31E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 9.88	Volume Recovered (bbls) 6
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The primary pump failed, causing a release of produced water to the ground. A vacuum truck recovered 6 bbls of fluid. 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kyle Littrell</u> Signature:  email: <u>Kyle_Littrell@xtcenergy.com</u>	Title: <u>Environmental Manager</u> Date: <u>01-08-21</u> Telephone: <u>432-221-7331</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>4/26/2021</u>	

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Site Assessment/Characterization

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

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

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

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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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: 03/24/2021

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Ramona Marcus Date: 4/26/2021

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Closure

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

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

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 03/24/2021

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

OCD Only

Received by: Ramona Marcus Date: 4/26/2021

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:  Date: 05/18/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA

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

March 25, 2021

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

**RE: Closure Request
PLU 15 TWR CTB
Incident Number nAPP2100834529
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Poker Lake Unit (PLU) 15 TWR CTB (Site) in Unit D, Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water at the Site. Based on field observations, field screening activities, and soil sample analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2100834529.

RELEASE BACKGROUND

On December 29, 2020, the primary pump failed, resulting in the release of approximately 9.88 barrels (bbls) of produced water onto the caliche well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 6 bbls of produced water were recovered. No release fluids escaped the well pad. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on January 8, 2021. The release was assigned Incident Number nAPP2100834529.

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-04388, located approximately 1.08 miles east of the Site. The groundwater well was most recently measured in February 2020 with a reported depth to groundwater of 868 feet bgs and a total depth of 910 feet bgs. Ground surface elevation at the groundwater well location is 3,566



feet above mean sea level (amsl), which is approximately 38 feet higher in elevation than the Site. There are two additional groundwater wells within a 2.5-mile radius of the Site that indicate regional depth to groundwater is greater than 100 feet bgs. The referenced well records are included in Attachment 1.

During December 2020, in an effort to confirm depth to water in the area, a borehole (C-04508) was advanced to a depth of 111.8 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 0.37 miles northeast of the Site. The location of borehole C-04508 is provided on Figure 1. An WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 111 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater wetland, located approximately 1.08 miles 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 not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On January 27, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground



surface. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional lateral and vertical assessment activities were scheduled.

On March 9, 2021, WSP personnel returned to the Site to oversee additional soil assessment activities. Eight potholes (PH01 through PH08) were advanced using a track-mounted backhoe to a depth of approximately 2 feet bgs within the release extent. Potholes PH01, PH03, PH04, and PH07 were advanced at the SS01 through SS04 preliminary soil sample locations. Delineation soil samples were collected from the potholes from depths ranging from 0.5 feet bgs to 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The pothole and delineation soil sample locations are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. All potholes were backfilled with soil removed. Photographic documentation was conducted during the site visits. Photographs are included in Attachment 3.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04 and all delineation soil samples collected from potholes PH01 through PH08 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Preliminary samples SS01 through SS04 and delineation samples from potholes PH01 through PH08 were collected from within the release extent from depths ranging from 0.5 feet to 2 feet



District II
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bgs to assess for the presence or absence of soil impacts as a result of the December 29, 2020, produced water release. Laboratory analytical results for the preliminary and delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additionally, the release was vertically delineated to below the most stringent Closure Criteria.

Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and confirmed depth to groundwater greater than 100 feet bgs, no impacted soil was identified and no excavation was required as a result of the produced water release. XTO respectfully requests NFA for Incident Number nAPP2100834529.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Elizabeth Naka".

Elizabeth Naka
Assistant Consultant, Environmental Scientist

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

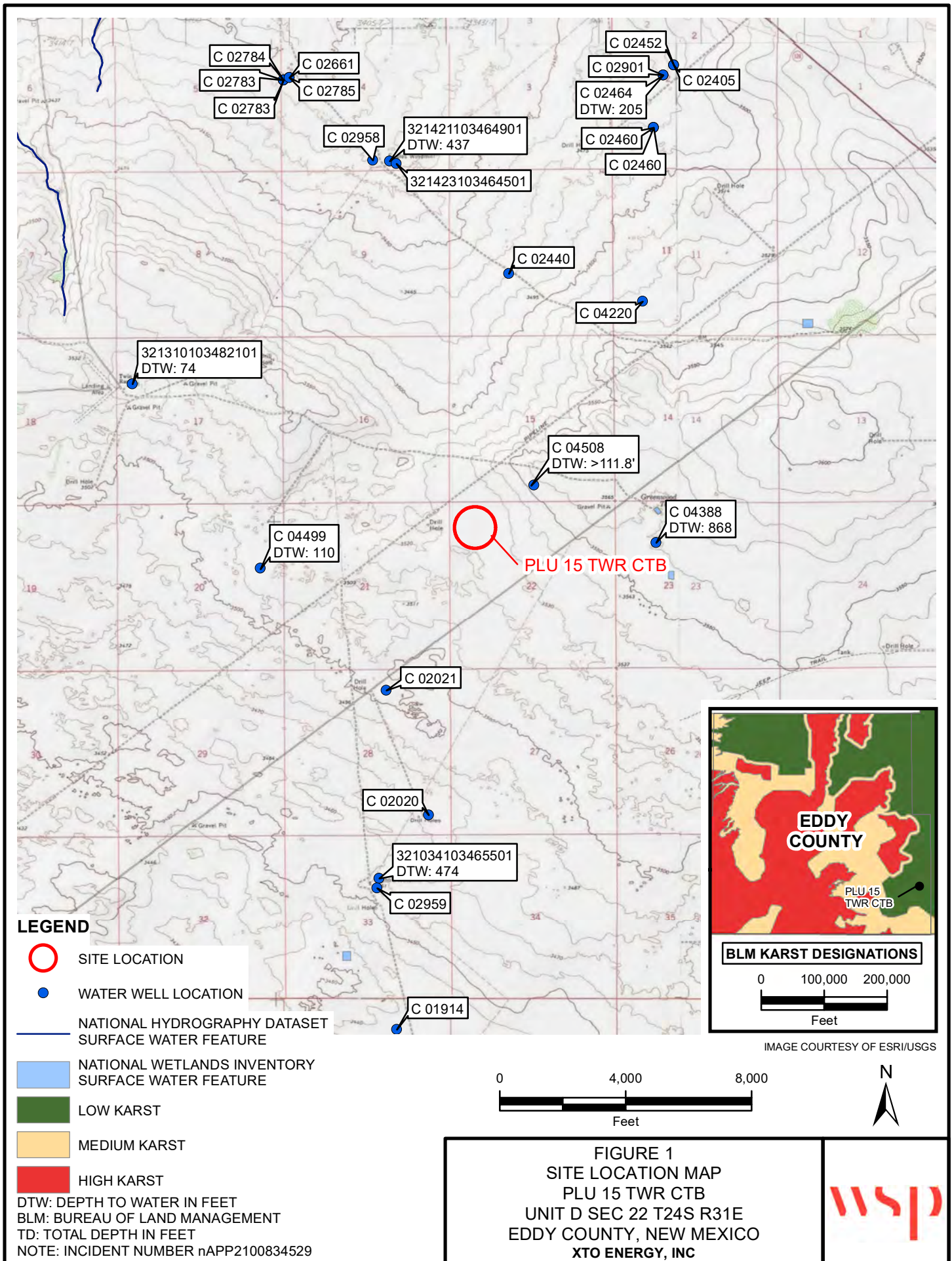
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

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

FIGURES



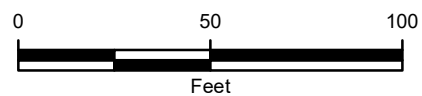
**LEGEND**

RELEASE LOCATION

PRELIMINARY SOIL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER nAPP2100834529
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

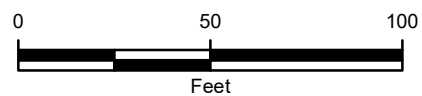
FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
PLU 15 TWR CTB
UNIT D SEC 25 T24S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



**LEGEND**

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

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER nAPP2100834529
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
PLU 15 TWR CTB
UNIT D SEC 25 T24S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



P:\XTO Energy\GIS\MXD\012921015_TWIN WELLS RANCH 15 CTB\012921015_FIG03_DELINEATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
 PLU 15 TWR CTB
 Incident Number nAPP2100834529
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	01/27/2021	0.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6,410
SS02	01/27/2021	0.5	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	5,080
SS03	01/27/2021	0.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6,170
SS04	01/27/2021	0.5	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	7,400
Delineation Samples										
PH01	03/09/2021	2	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	48.4
PH02	03/09/2021	0.5	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,880
PH02A	03/09/2021	2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	82.9
PH03	03/09/2021	2	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	19.2
PH04	03/09/2021	2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	348
PH05	03/09/2021	0.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	6,830
PH05A	03/09/2021	2	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	137
PH06	03/09/2021	0.5	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,610
PH06A	03/09/2021	2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	118
PH07	03/09/2021	2	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	598
PH08	03/09/2021	0.5	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	4,040
PH08A	03/09/2021	2	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	27.8

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 RECORD



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
22333	C 04388 POD1	3	2	1	23	24S	31E	617546	3564006

Driller License: 1058

Driller Company: KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, GARYR.S AICHARDDENAS

Drill Start Date: 12/18/2019

Drill Finish Date: 02/22/2020

Plug Date:

Log File Date: 02/27/2020

PCW Rev Date:

Source: Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield: 60 GPM

Casing Size: 4.50

Depth Well: 910 feet

Depth Water: 868 feet

Water Bearing Stratifications:

Top Bottom Description

866 868 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom


850 910

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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	C 04499 POD1	3	4	2	20	24S	31E	613719	3563732 
<hr/>									
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name:		ATKINS, JACKIE D.UELENER							
Drill Start Date: 12/30/2020		Drill Finish Date:				12/30/2020		Plug Date: 01/19/2021	
Log File Date: 01/27/2021		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:				111 feet		Depth Water:	
<hr/>									

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.

3/22/21 7:30 PM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321034103465501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321034103465501 24S.31E.33.231113

Eddy County, New Mexico
Latitude 32°10'38.2", Longitude 103°46'53.0" NAD83
Land-surface elevation 3,461.00 feet above NGVD29
The depth of the well is 740 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-03-12			D	62610	2986.75	NGVD29	1		Z	
1959-03-12			D	62611	2988.49	NAVD88	1		Z	
1959-03-12			D	72019	474.25		1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels


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





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


Page Last Modified: 2021-03-22 21:34:46 EDT


0.33 0.29 nadww01

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		BH01		12/29/2020				
		Site Name:		PLU TWR 905H				
		RP or Incident Number:						
		LTE Job Number:		TE012919257				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.211550,-103.765359		Field Screening Chloride, PID NO FIELD SCREENING		Hole Diameter: 8.25"				
				Total Depth: 111.8' bgs				
Comments: No field screening: only lithologic analysis and remarks.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						1	SP-SM	0-14': SAND, medium-fine grain, poorly graded, little claiche gravel (4mm-25mm), light-brown-tan color, no stain, no odor, dry.
						2		
						3		
						4		5': Trace caliche gravel
						5		14-15': SAND, fine-grained, poorly graded, some caliche gravel (1mm-9mm), light-brown-tan color, no stain, no odor dry.
						6		
						7		15-25': CALICHE, moderately consolidated, silty, some claiche gravel (1mm-9mm) off-white-tan, no stain, no odor dry.
						8		
						9		24': Reduced gravel size (1mm-5mm).
						10		25': Color change to milk chocolate brown.
						11		
						12		
						13		
						14		
						15	SP-SM	
						16	CCHE	
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
						25		


 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		BH01		12/29/2020				
		Site Name:		PLU TWR 905H				
		RP or Incident Number:						
		LTE Job Number:		TE012919257				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By W.M./L.A.D.				
Lat/Long: 32.211550,-103.765359		Field Screening Chloride, PID NO FIELD SCREENING		Hole Diameter: 8.25"				
				Method: Hollow Stem Auger, Air Rotary				
Total Depth: 111.8' bgs								
Comments: No field screening: only lithologic analysis and remarks.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						26	CCHE	15-25': CALICHE, moderately consolidated, silty, some caliche gravel (1mm-9mm) off-white-tan, no stain, no odor, dry.
						27	ML-S	
						28		24': Reduced gravel size (1mm-5mm).
						29		25': Color change to milk chocolate brown.
						30		26-46': SILTSTONE, moderately consolidated, nonchoesive, low plasticity, some sand, red-brown, no stain, no odor, dry.
						31		
						32		39': Few sand, gravel absent.
						33		46-64': CLAYSTONE, moderately consolidated, cohesive, medium plasticity, few sand, red-brown, no stain, no odor, dry.
						34		
						35		48': Resistance increaed, highly consolidated.
						36		
						37		
						38		
						39		
						40		
						41		
						42		
						43		
						44		
						45		
						46		
						47	CL-S	
						48		
						49		
						50		


 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		BH01		12/29/2020				
		Site Name:		PLU TWR 905H				
		RP or Incident Number:						
		LTE Job Number:		TE012919257				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By W.M./L.A.D.				
Lat/Long: 32.211550,-103.765359		Field Screening Chloride, PID NO FIELD SCREENING		Method: Hollow Stem Auger, Air Rotary				
		Hole Diameter: 8.25"		Total Depth: 111.8' bgs				
Comments: No field screening: only lithologic analysis and remarks.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						51		46-64': CLAYSTONE, moderately consolidated, cohesive, medium plasticity, few sand, red-brown, no stain, no odor, dry.
						52		
						53		48': Resistance increaed, highly consolidated.
						54		54': Switched to air rotary.
						55		64-69': SANDSTONE, highly consolidated, medium-grain, well graded white-light-brown, no stain, no odor, dry, sharp trans.
						56		
						57		64-69': CLAYSTONE and SANDSTONE stringers, low confidence in stringer width (1ft.) due to pulverized material from air rotary.
						58		
						59		
						60		69-72': SANDSTONE, highly consolidated, medium-grain, well graded white-light-brown, no stain, no odor, dry.
						61		
						62		72-90': CLAYSTONE, highly consolidated, cohesive, medium plasticity, few sand, red-brown, no stain, no odor, dry.
						63		
						64		72': Faint yellow-tan sediment powder
						65	SW-S	74-90': SANDSTONE stringers appear intermittently. Aprox. at 1 ft. intervals.
						66	CL-S	
						67	SW-S	
						68	CL-S	
						69	SW-S	
						70		
						71		
						72		
						73	CL-S	
						74		
						75		


 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name:		Date:				
		BH01		12/29/2020				
		Site Name:		PLU TWR 905H				
		RP or Incident Number:						
		LTE Job Number:		TE012919257				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.211550,-103.765359		Field Screening Chloride, PID		NO FIELD SCREENING				
		Hole Diameter: 8.25"		Total Depth: 111.8' bgs				
Comments: No field screening: only lithologic analysis and remarks.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						76		72-90: CLAYSTONE, highly consolidated, cohesive, medium plasticity, few sand, red-brown, no stain, no odor, dry.
						77		
						78		74-90': SANDSTONE stringers appear intermittently. Aprox. at 1 ft. intervals.
						79		
						80		85': SANDSTONE is now pale yellow- off white color.
						81		90-101': SANDSTONE, highly consolidated, fine grain, few silt, color varies- predominately white/offwhite, no stain, no odor, dry. Colors include: (Brown-red, yellow-white, white-off-white)
						82		
						83		
						84		
						85		
						86		
						87		
						88		
						89		
						90		
						91	SP-S	
						92		
						93		
						94		
						95		
						96		
						97		
						98		
						99		
						100		


 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name:		Date:				
		BH01		12/29/2020				
		Site Name:		PLU TWR 905H				
		RP or Incident Number:						
		LTE Job Number:		TE012919257				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.211550,-103.765359		Field Screening Chloride, PID NO FIELD SCREENING		Logged By W.M./L.A.D. Hole Diameter: 8.25"				
				Method: Hollow Stem Auger, Air Rotary Total Depth: 111.8' bgs				
Comments: No field screening: only lithologic analysis and remarks.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						101	SP-S	90-101': SANDSTONE, highly consolidated, fine grain, few silt, color varies- predominately white/offwhite, no stain, no odor, dry. Colors include: (Brown-red, yellow-white, white-off-white)
						102	CL-S	
						103		
						104		101-108': CLAYSTONE, highly consolidated, cohesive, medium-low plasticity, few sand, red-brown, no stain, no odor, dry.
						105		
						106		101': Trace gray gravel (4.4-9.4mm)
						107		103': SANDSTONE stringer
						108		108-111.8: SANDSTONE, highly consolidated, fine grain, few silt, color varies- predominately white/offwhite, no stain, no odor, dry.
						109		
						110		
						111		
						112		
						113		TD = 111.8 ft. bgs
						114		Water not found upon well setting on 12/29/2020
						115		DTW Measurement on 1/5/20: N/a Dry
						116		
						117		
						118		
						119		
						120		
						121		
						122		
						123		
						124		
						125		


ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:		
					PH01		3/9/2021		
					Site Name: PLU 15 TWR CTB				
					RP or Incident Number: nAPP2100834529				
WSP Job Number: TE012921015									
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long:				Field Screening:		Hole Diameter:		Total Depth:	
				Chloride, PID				2'	
Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	<168	0.2	N	PH01	2'	0		SAND, fine grain, well graded, brown/red, little clay, dry	
						1			
						2			
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			


 <div> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name: PH02		Date: 3/9/2021				
		Site Name: PLU 15 TWR CTB						
		RP or Incident Number: nAPP2100834529						
		WSP Job Number: TE012921015						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: Chloride, PID		Hole Diameter:				
				Total Depth: 2'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	2,139	0.1	N	PH02		0		Caliche, poor-medium con, tan, dry
D	<168	0.1	N	PH02A	2'	2		SAND, fine grain, well graded, brown/red, little clay, dry
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		


 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		PH03		3/9/2021				
		Site Name:		PLU 15 TWR CTB				
		RP or Incident Number:		nAPP2100834529				
WSP Job Number: TE012921015								
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:			Field Screening:		Hole Diameter:			
			Chloride, PID		Total Depth:			
					2'			
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<168	0.1	N	PH03	2'	0		SAND, fine grain, well graded, brown/red, little clay, dry
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name: PH04		Date: 3/9/2021				
		Site Name: PLU 15 TWR CTB						
		RP or Incident Number: nAPP2100834529						
		WSP Job Number: TE012921015						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: Chloride, PID		Hole Diameter:				
				Total Depth: 2'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<168	0.1	N	PH04	2'	0		SAND, fine grain, well graded, brown/red, little clay, dry
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		PH05		3/9/2021				
		Site Name:		PLU 15 TWR CTB				
		RP or Incident Number:		nAPP2100834529				
WSP Job Number: TE012921015								
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:			Field Screening:		Hole Diameter:			
			Chloride, PID		Total Depth:			
					2'			
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	6,770	0.3	N	PH05		0		Caliche, poor-medium con, tan, dry
						1		
D	<168	0.3	N	PH05A	2'	2		SAND, fine grain, well graded, brown/red, little clay, dry
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name: PH06		Date: 3/9/2021				
		Site Name: PLU 15 TWR CTB						
		RP or Incident Number: nAPP2100834529						
		WSP Job Number: TE012921015						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: Chloride, PID		Hole Diameter:				
				Total Depth: 2'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	2,159	0.3	N	PH06		0		Caliche, poor-medium con, tan, dry
						1		
D	<168	0.3	N	PH06A	2'	2		SAND, fine grain, well graded, brown/red, little clay, dry
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name: PH07		Date: 3/9/2021				
		Site Name: PLU 15 TWR CTB						
		RP or Incident Number: nAPP2100834529						
		WSP Job Number: TE012921015						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening: Chloride, PID		Hole Diameter:				
				Total Depth: 2'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	442	0.3	N	PH07		0		Caliche, poor-medium con, tan, dry
						1		
D	<168	0.3	N	PH07A	2'	2		SAND, fine grain, well graded, brown/red, little clay, dry
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 <div style="text-align: center;"> WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 </div>		BH or PH Name:		Date:				
		PH08		3/9/2021				
		Site Name:		PLU 15 TWR CTB				
		RP or Incident Number:		nAPP2100834529				
WSP Job Number: TE012921015								
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:			Field Screening:		Hole Diameter:			
			Chloride, PID		Total Depth:			
					2'			
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	2,284	0.2	N	PH08		0		Caliche, poor-medium con, tan, dry
						1		
D	<168	0.2	N	PH08A	2'	2		SAND, fine grain, well graded, brown/red, little clay, dry
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU 15 TWR CTB Eddy County, New Mexico	nAPP2100834529

Photo No.	Date	
1	January 27, 2021	
View of release area on pad facing East.		 A wide-angle photograph of an industrial site under a clear blue sky. In the foreground is a large, flat, sandy area with tire tracks. In the background, there are several large, dark green cylindrical storage tanks, various pipes, and a small white pickup truck parked on the right side.

Photo No.	Date	
2	January 27, 2021	
View of point of release facing North		 A close-up photograph of an industrial release point. A large, dark pipe with a blue handwheel valve is visible, flanked by two yellow vertical safety posts. The ground is sandy and uneven. In the background, a dark pickup truck is parked, and other industrial structures are visible under a clear sky.



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU 15 TWR CTB Eddy County, New Mexico	nAPP2100834529

Photo No.	Date	
3	March 9, 2021	
View of pothole locations facing West.		

Photo No.	Date	
4	March 9, 2021	
View of pothole locations facing Northeast		

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

Certificate of Analysis Summary 686411

WSP USA, Dallas, TX

Project Name: PLU 15 TWR CTB

Project Id:

Contact: Dan Moir

Project Location: TBD Spill Date 12-29-2020

Date Received in Lab: Wed 01.27.2021 16:12

Report Date: 02.03.2021 16:59

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686411-001	686411-002	686411-003	686411-004		
	<i>Field Id:</i>	SS01	SS02	SS03	SS04		
	<i>Depth:</i>	0.3- ft	0.3- ft	0.3- ft	0.3- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	01.27.2021 13:57	01.27.2021 14:08	01.27.2021 14:16	01.27.2021 14:23		
BTEX by EPA 8021B	<i>Extracted:</i>	01.29.2021 09:43	01.29.2021 09:43	01.29.2021 09:43	01.29.2021 09:43		
	<i>Analyzed:</i>	01.29.2021 19:04	01.29.2021 19:26	01.29.2021 19:48	01.29.2021 20:11		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398		
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199		
Chloride by EPA 300	<i>Extracted:</i>	01.28.2021 16:36	01.28.2021 16:36	01.28.2021 16:36	01.28.2021 16:36		
	<i>Analyzed:</i>	01.29.2021 05:43	01.29.2021 05:48	01.29.2021 05:54	01.29.2021 06:11		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		6410 99.8	5080 100	6170 99.2	7400 100		
TPH by SW8015 Mod SUB: T104704400-20-21	<i>Extracted:</i>	02.02.2021 12:00	02.02.2021 12:00	02.02.2021 12:00	02.02.2021 12:00		
	<i>Analyzed:</i>	** ** *	02.02.2021 13:50	02.02.2021 14:11	02.02.2021 14:32		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Total GRO-DRO		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9		

BRL - Below Reporting Limit

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





Analytical Report 686411

for

WSP USA

Project Manager: Dan Moir

PLU 15 TWR CTB

02.03.2021

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



02.03.2021

Project Manager: **Dan Moir**

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **686411**

PLU 15 TWR CTB

Project Address: TBD Spill Date 12-29-2020

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686411. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686411 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01.27.2021 13:57	0.3 ft	686411-001
SS02	S	01.27.2021 14:08	0.3 ft	686411-002
SS03	S	01.27.2021 14:16	0.3 ft	686411-003
SS04	S	01.27.2021 14:23	0.3 ft	686411-004



CASE NARRATIVE

Client Name: WSP USA

Project Name: PLU 15 TWR CTB

Project ID:

Work Order Number(s): 686411

Report Date: 02.03.2021

Date Received: 01.27.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS01**
Lab Sample Id: 686411-001

Matrix: Soil
Date Collected: 01.27.2021 13:57

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.28.2021 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3149348

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6410	99.8	mg/kg	01.29.2021 05:43		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 02.02.2021 12:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Seq Number: 3149864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.01.2021 11:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.01.2021 11:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.01.2021 11:43	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.01.2021 11:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.01.2021 11:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	02.01.2021 11:43	
o-Terphenyl	84-15-1	121	%	70-130	02.01.2021 11:43	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS01**
Lab Sample Id: 686411-001

Matrix: Soil
Date Collected: 01.27.2021 13:57

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.29.2021 09:43

% Moisture:
Basis: Wet Weight

Seq Number: 3149395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.29.2021 19:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.29.2021 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.29.2021 19:04	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.29.2021 19:04	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS02**
Lab Sample Id: 686411-002

Matrix: Soil
Date Collected: 01.27.2021 14:08

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.28.2021 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3149348

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5080	100	mg/kg	01.29.2021 05:48		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 02.02.2021 12:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Seq Number: 3149864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.02.2021 13:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.02.2021 13:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.02.2021 13:50	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.02.2021 13:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.02.2021 13:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	02.02.2021 13:50	
o-Terphenyl	84-15-1	111	%	70-130	02.02.2021 13:50	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS02**
Lab Sample Id: 686411-002

Matrix: Soil
Date Collected: 01.27.2021 14:08

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.29.2021 09:43

% Moisture:
Basis: Wet Weight

Seq Number: 3149395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.29.2021 19:26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.29.2021 19:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	01.29.2021 19:26	
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.29.2021 19:26	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS03**
Lab Sample Id: 686411-003

Matrix: Soil
Date Collected: 01.27.2021 14:16

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.28.2021 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3149348

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6170	99.2	mg/kg	01.29.2021 05:54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 02.02.2021 12:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Seq Number: 3149864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.02.2021 14:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.02.2021 14:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.02.2021 14:11	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.02.2021 14:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.02.2021 14:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	02.02.2021 14:11	
o-Terphenyl	84-15-1	97	%	70-130	02.02.2021 14:11	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS03**
Lab Sample Id: 686411-003

Matrix: Soil
Date Collected: 01.27.2021 14:16

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.29.2021 09:43

% Moisture:
Basis: Wet Weight

Seq Number: 3149395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.29.2021 19:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.29.2021 19:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.29.2021 19:48	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.29.2021 19:48	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS04**
Lab Sample Id: 686411-004

Matrix: Soil
Date Collected: 01.27.2021 14:23

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.28.2021 16:36

% Moisture:
Basis: Wet Weight

Seq Number: 3149348

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7400	100	mg/kg	01.29.2021 06:11		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 02.02.2021 12:00

% Moisture:
Basis: Wet Weight
SUB: T104704400-20-21

Seq Number: 3149864

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.02.2021 14:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.02.2021 14:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.02.2021 14:32	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	02.02.2021 14:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.02.2021 14:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	02.02.2021 14:32	
o-Terphenyl	84-15-1	110	%	70-130	02.02.2021 14:32	



Certificate of Analytical Results 686411

WSP USA, Dallas, TX

PLU 15 TWR CTB

Sample Id: **SS04**
Lab Sample Id: 686411-004

Matrix: Soil
Date Collected: 01.27.2021 14:23

Date Received: 01.27.2021 16:12
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.29.2021 09:43

% Moisture:
Basis: Wet Weight

Seq Number: 3149395

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.29.2021 20:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.29.2021 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.29.2021 20:11	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.29.2021 20:11	

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



WSP USA
PLU 15 TWR CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3149348

MB Sample Id: 7720319-1-BLK

Matrix: Solid

LCS Sample Id: 7720319-1-BKS

Prep Method: E300P

Date Prep: 01.28.2021

LCSD Sample Id: 7720319-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	212	106	208	104	90-110	2	20	mg/kg	01.29.2021 04:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3149348

Parent Sample Id: 686312-081

Matrix: Soil

MS Sample Id: 686312-081 S

Prep Method: E300P

Date Prep: 01.28.2021

MSD Sample Id: 686312-081 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	488	202	658	84	655	83	90-110	0	20	mg/kg	01.29.2021 04:40	X

Analytical Method: Chloride by EPA 300

Seq Number: 3149348

Parent Sample Id: 686411-003

Matrix: Soil

MS Sample Id: 686411-003 S

Prep Method: E300P

Date Prep: 01.28.2021

MSD Sample Id: 686411-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6170	202	6360	94	6360	94	90-110	0	20	mg/kg	01.29.2021 06:00	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3149864

MB Sample Id: 7720662-1-BLK

Matrix: Solid

LCS Sample Id: 7720662-1-BKS

Prep Method: SW8015P

Date Prep: 02.02.2021

LCSD Sample Id: 7720662-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	971	97	991	99	70-130	2	20	mg/kg	02.02.2021 21:36	
Diesel Range Organics (DRO)	<50.0	1000	862	86	889	89	70-130	3	20	mg/kg	02.02.2021 21:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		90		93		70-130	%	02.02.2021 21:36
o-Terphenyl	109		89		96		70-130	%	02.02.2021 21:36

Analytical Method: TPH by SW8015 Mod

Seq Number: 3149864

Matrix: Solid

MB Sample Id: 7720662-1-BLK

Prep Method: SW8015P

Date Prep: 02.02.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.01.2021 11:43	

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

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

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

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



WSP USA
PLU 15 TWR CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3149864

Parent Sample Id: 686411-001

Matrix: Soil

MS Sample Id: 686411-001 S

Prep Method: SW8015P

Date Prep: 02.02.2021

MSD Sample Id: 686411-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1030	103	958	96	70-130	7	20	mg/kg	02.02.2021 13:08	
Diesel Range Organics (DRO)	<49.9	997	930	93	862	87	70-130	8	20	mg/kg	02.02.2021 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		83		70-130	%	02.02.2021 13:08
o-Terphenyl	90		84		70-130	%	02.02.2021 13:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3149395

MB Sample Id: 7720297-1-BLK

Matrix: Solid

LCS Sample Id: 7720297-1-BKS

Prep Method: SW5035A

Date Prep: 01.29.2021

LCSD Sample Id: 7720297-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0904	90	0.0955	96	70-130	5	35	mg/kg	01.29.2021 10:02	
Toluene	<0.00200	0.100	0.0876	88	0.0963	96	70-130	9	35	mg/kg	01.29.2021 10:02	
Ethylbenzene	<0.00200	0.100	0.0893	89	0.0964	96	71-129	8	35	mg/kg	01.29.2021 10:02	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.195	98	70-135	9	35	mg/kg	01.29.2021 10:02	
o-Xylene	<0.00200	0.100	0.0900	90	0.0995	100	71-133	10	35	mg/kg	01.29.2021 10:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		96		96		70-130	%	01.29.2021 10:02
4-Bromofluorobenzene	99		95		100		70-130	%	01.29.2021 10:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3149395

Parent Sample Id: 686300-001

Matrix: Soil

MS Sample Id: 686300-001 S

Prep Method: SW5035A

Date Prep: 01.29.2021

MSD Sample Id: 686300-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.117	116	0.118	118	70-130	1	35	mg/kg	01.29.2021 10:47	
Toluene	<0.00202	0.101	0.115	114	0.117	117	70-130	2	35	mg/kg	01.29.2021 10:47	
Ethylbenzene	<0.00202	0.101	0.118	117	0.119	119	71-129	1	35	mg/kg	01.29.2021 10:47	
m,p-Xylenes	<0.00403	0.202	0.240	119	0.240	120	70-135	0	35	mg/kg	01.29.2021 10:47	
o-Xylene	<0.00202	0.101	0.121	120	0.118	118	71-133	3	35	mg/kg	01.29.2021 10:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	01.29.2021 10:47
4-Bromofluorobenzene	101		101		70-130	%	01.29.2021 10:47

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

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

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

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

Work Order No: 6812411

Page 1 of 1
www.xenco.comANALYSIS REQUEST

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Wet Ice:	Yes <input checked="" type="radio"/> No <input type="radio"/>

Sample Identification	Date Sampled	Time Sampled	Depth
-----------------------	--------------	--------------	-------

Circle Method(s) and Metal(s) to be analyzed	
TCLP / SPLP 6010:	8RCRA
Sp	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
As	Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Ba	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Be	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Cd	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Cr	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Co	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Cu	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Pb	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Mn	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Ni	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Se	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Ag	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
SiO ₂	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Na	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Sr	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Ti	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Sn	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
U	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
V	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Zn	As Ba Be Cd Cr Co Cu Pb Mn Ni Se Ag SiO ₂ Na Sr Ti Sn U V Zn

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Inter-Office Shipment

IOS Number : **77260**

Date/Time: 01.28.2021

Created by: Cloe Clifton

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

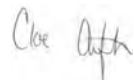
Air Bill No.: 772762019427

E-Mail: jessica.kramer@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
686411-001	S	SS01	01.27.2021 13:57	SW8015MOD_NM	TPH by SW8015 Mod	02.02.2021	02.10.2021	JKR	GRO-DRO PHCC10C28	
686411-002	S	SS02	01.27.2021 14:08	SW8015MOD_NM	TPH by SW8015 Mod	02.02.2021	02.10.2021	JKR	GRO-DRO PHCC10C28	
686411-003	S	SS03	01.27.2021 14:16	SW8015MOD_NM	TPH by SW8015 Mod	02.02.2021	02.10.2021	JKR	GRO-DRO PHCC10C28	
686411-004	S	SS04	01.27.2021 14:23	SW8015MOD_NM	TPH by SW8015 Mod	02.02.2021	02.10.2021	JKR	GRO-DRO PHCC10C28	

Inter Office Shipment or Sample Comments:

Relinquished By:



Cloe Clifton

Date Relinquished: 01.28.2021

Received By:



Jessica Kramer

Date Received: 01.29.2021

Cooler Temperature: 0.3

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 77260

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Cloe Clifton

Date Sent: 01.28.2021 02.49 PM

Received By: Jessica Kramer

Date Received: 01.29.2021 10.34 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jessica Kramer

Jessica Kramer

Date: 01.29.2021

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.27.2021 04.12.00 PM

Work Order #: 686411

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

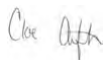
TPH sent to Midland.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.28.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.28.2021



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-311-1

Laboratory Sample Delivery Group: TE012921015

Client Project/Site: PLU 15 TWR CTB

For:

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

Attn: Dan Moir

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

Authorized for release by:
3/16/2021 5:54:02 PM

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

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www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Laboratory Job ID: 890-311-1
SDG: TE012921015

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Qualifiers

Subcontract

Qualifier	Qualifier Description
**	Surrogate recovered outside laboratory control limit.
U	Analyte was 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: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Job ID: 890-311-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-311-1

Receipt

The samples were received on 3/9/2021 12:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-311-1), PH02 (890-311-2), PH02A (890-311-3), PH03 (890-311-4), PH04 (890-311-5), PH05 (890-311-6), PH05 A (890-311-7), PH06 (890-311-8), PH06 A (890-311-9), PH07 (890-311-10), PH08 (890-311-11) and PH08 A (890-311-12).

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH01

Lab Sample ID: 890-311-1

Date Collected: 03/09/21 09:16

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/14/21 11:00	03/15/21 06:19	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1
Toluene	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/14/21 11:00	03/15/21 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	102		70 - 130	03/14/21 11:00	03/15/21 06:19	1
4-Bromofluorobenzene	107		70 - 130	03/14/21 11:00	03/15/21 06:19	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		5.00		mg/kg		03/12/21 17:00	03/12/21 23:44	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 13:30	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 135	03/13/21 09:00	03/13/21 13:30	1
o-Terphenyl	81		70 - 135	03/13/21 09:00	03/13/21 13:30	1

Client Sample ID: PH02

Lab Sample ID: 890-311-2

Date Collected: 03/09/21 09:25

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/kg		03/14/21 11:00	03/15/21 06:39	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1
Toluene	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/14/21 11:00	03/15/21 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	105		70 - 130	03/14/21 11:00	03/15/21 06:39	1
4-Bromofluorobenzene	111		70 - 130	03/14/21 11:00	03/15/21 06:39	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2880		25.0		mg/kg		03/12/21 17:00	03/12/21 23:49	5

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH02

Lab Sample ID: 890-311-2

Date Collected: 03/09/21 09:25

Matrix: Solid

Date Received: 03/09/21 12:52

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 135				03/13/21 09:00	03/13/21 14:34	1
o-Terphenyl	98		70 - 135				03/13/21 09:00	03/13/21 14:34	1

Client Sample ID: PH02A

Lab Sample ID: 890-311-3

Date Collected: 03/09/21 09:28

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/14/21 11:00	03/15/21 07:00	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
Toluene	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/14/21 11:00	03/15/21 07:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	106		70 - 130				03/14/21 11:00	03/15/21 07:00	1
4-Bromofluorobenzene	101		70 - 130				03/14/21 11:00	03/15/21 07:00	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9		5.00		mg/kg		03/12/21 17:00	03/12/21 23:54	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 135				03/13/21 09:00	03/13/21 14:56	1
o-Terphenyl	88		70 - 135				03/13/21 09:00	03/13/21 14:56	1

Client Sample ID: PH03

Lab Sample ID: 890-311-4

Date Collected: 03/09/21 09:37

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/14/21 12:00	03/14/21 23:48	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1
Toluene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH03

Lab Sample ID: 890-311-4

Date Collected: 03/09/21 09:37

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/14/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130				03/14/21 12:00	03/14/21 23:48	1
4-Bromofluorobenzene	92		70 - 130				03/14/21 12:00	03/14/21 23:48	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		5.03		mg/kg		03/12/21 17:00	03/12/21 23:59	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 135				03/13/21 09:00	03/13/21 15:17	1
o-Terphenyl	85		70 - 135				03/13/21 09:00	03/13/21 15:17	1

Client Sample ID: PH04

Lab Sample ID: 890-311-5

Date Collected: 03/09/21 09:45

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/kg		03/14/21 12:00	03/15/21 00:08	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
Toluene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130				03/14/21 12:00	03/15/21 00:08	1
4-Bromofluorobenzene	92		70 - 130				03/14/21 12:00	03/15/21 00:08	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	348		49.9		mg/kg		03/15/21 14:45	03/15/21 22:47	10

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:39	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 15:39	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH04

Lab Sample ID: 890-311-5

Date Collected: 03/09/21 09:45

Matrix: Solid

Date Received: 03/09/21 12:52

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 135	03/13/21 09:00	03/13/21 15:39	1
o-Terphenyl	67	**	70 - 135	03/13/21 09:00	03/13/21 15:39	1

Client Sample ID: PH05

Lab Sample ID: 890-311-6

Date Collected: 03/09/21 09:53

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/kg		03/14/21 12:00	03/15/21 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
Toluene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	93		70 - 130				03/14/21 12:00	03/15/21 00:29	1
4-Bromofluorobenzene	96		70 - 130				03/14/21 12:00	03/15/21 00:29	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6830		50.4		mg/kg		03/15/21 14:45	03/15/21 22:52	10

Method: TPH 8015_NM_MOD - General Subcontract Method

Method 1631-101-0101-0102 General Laboratory Method									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 135				03/13/21 09:00	03/13/21 16:00	1
o-Terphenyl	81		70 - 135				03/13/21 09:00	03/13/21 16:00	1

Client Sample ID: PH05 A

Lab Sample ID: 890-311-7

Date Collected: 03/09/21 09:54

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
m,p-Xylenes	<0.00396	U	0.00396		mg/kg		03/14/21 12:00	03/15/21 00:49	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
Toluene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
Total BTEX	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130				03/14/21 12:00	03/15/21 00:49	

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH05 A

Lab Sample ID: 890-311-7

Date Collected: 03/09/21 09:54

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		70 - 130	03/14/21 12:00	03/15/21 00:49	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00		mg/kg		03/15/21 14:45	03/15/21 22:58	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 135	03/13/21 09:00	03/13/21 16:21	1
o-Terphenyl	110		70 - 135	03/13/21 09:00	03/13/21 16:21	1

Client Sample ID: PH06

Lab Sample ID: 890-311-8

Date Collected: 03/09/21 10:05

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/14/21 12:00	03/15/21 01:10	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1
Toluene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/14/21 12:00	03/15/21 01:10	1
4-Bromofluorobenzene	93		70 - 130	03/14/21 12:00	03/15/21 01:10	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		25.2		mg/kg		03/15/21 14:45	03/15/21 23:03	5

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 135	03/13/21 09:00	03/13/21 16:43	1
o-Terphenyl	70		70 - 135	03/13/21 09:00	03/13/21 16:43	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH06 A

Lab Sample ID: 890-311-9

Date Collected: 03/09/21 10:07

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/kg		03/14/21 12:00	03/15/21 01:30	1
o-Xylene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1
Toluene	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1
Total BTEX	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1
Total Xylenes	<0.00200	U	0.00200		mg/kg		03/14/21 12:00	03/15/21 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130	03/14/21 12:00	03/15/21 01:30	1
4-Bromofluorobenzene	92		70 - 130	03/14/21 12:00	03/15/21 01:30	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.00		mg/kg		03/15/21 16:00	03/15/21 16:51	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Gasoline Range Hydrocarbons (GRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Motor Oil Range Hydrocarbons (MRO)	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1
Total TPH	<49.9	U	49.9		mg/kg		03/13/21 09:00	03/13/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	**	70 - 135	03/13/21 09:00	03/13/21 17:05	1
o-Terphenyl	37	**	70 - 135	03/13/21 09:00	03/13/21 17:05	1

Client Sample ID: PH07

Lab Sample ID: 890-311-10

Date Collected: 03/09/21 10:15

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1
m,p-Xylenes	<0.00404	U	0.00404		mg/kg		03/14/21 12:00	03/15/21 01:50	1
o-Xylene	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1
Toluene	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1
Total BTEX	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1
Total Xylenes	<0.00202	U	0.00202		mg/kg		03/14/21 12:00	03/15/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130	03/14/21 12:00	03/15/21 01:50	1
4-Bromofluorobenzene	93		70 - 130	03/14/21 12:00	03/15/21 01:50	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	598		5.04		mg/kg		03/15/21 16:00	03/15/21 17:08	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 17:26	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH07

Lab Sample ID: 890-311-10

Date Collected: 03/09/21 10:15

Matrix: Solid

Date Received: 03/09/21 12:52

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons (GRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Motor Oil Range Hydrocarbons (MRO)	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Total TPH	<49.8	U	49.8		mg/kg		03/13/21 09:00	03/13/21 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	**	70 - 135				03/13/21 09:00	03/13/21 17:26	1
o-Terphenyl	124		70 - 135				03/13/21 09:00	03/13/21 17:26	1

Client Sample ID: PH08

Lab Sample ID: 890-311-11

Date Collected: 03/09/21 10:28

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/kg		03/14/21 12:00	03/15/21 02:11	1
o-Xylene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
Toluene	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
Total BTEX	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
Total Xylenes	<0.00199	U	0.00199		mg/kg		03/14/21 12:00	03/15/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	94		70 - 130				03/14/21 12:00	03/15/21 02:11	1
4-Bromofluorobenzene	95		70 - 130				03/14/21 12:00	03/15/21 02:11	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4040		24.8		mg/kg		03/15/21 16:00	03/15/21 17:13	5

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 135				03/13/21 09:00	03/13/21 18:09	1
o-Terphenyl	93		70 - 135				03/13/21 09:00	03/13/21 18:09	1

Client Sample ID: PH08 A

Lab Sample ID: 890-311-12

Date Collected: 03/09/21 10:29

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1
m,p-Xylenes	<0.00397	U	0.00397		mg/kg		03/14/21 12:00	03/15/21 02:31	1
o-Xylene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1
Toluene	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH08 A

Lab Sample ID: 890-311-12

Date Collected: 03/09/21 10:29

Matrix: Solid

Date Received: 03/09/21 12:52

Method: BTEX 8021 - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1
Total Xylenes	<0.00198	U	0.00198		mg/kg		03/14/21 12:00	03/15/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	92		70 - 130				03/14/21 12:00	03/15/21 02:31	1
4-Bromofluorobenzene	91		70 - 130				03/14/21 12:00	03/15/21 02:31	1

Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8		4.99		mg/kg		03/15/21 16:00	03/15/21 17:19	1

Method: TPH 8015_NM_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Gasoline Range Hydrocarbons (GRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Motor Oil Range Hydrocarbons (MRO)	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Total TPH	<50.0	U	50.0		mg/kg		03/13/21 09:00	03/13/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 135				03/13/21 09:00	03/13/21 18:30	1
o-Terphenyl	113		70 - 135				03/13/21 09:00	03/13/21 18:30	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (70-130)
691135-004 S	Matrix Spike	100
691135-004 SD	Matrix Spike Duplicate	105
7723284-1-BKS	Lab Control Sample	105
7723284-1-BLK	Method Blank	90
7723284-1-BSD	Lab Control Sample Dup	98
7723305-1-BKS	Lab Control Sample	104
7723305-1-BLK	Method Blank	115
7723305-1-BSD	Lab Control Sample Dup	102
Surrogate Legend		
BFB = 4-Bromofluorobenzene		

Method: BTEX 8021 - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-311-1	PH01	107	102
890-311-2	PH02	111	105
890-311-3	PH02A	101	106
890-311-4	PH03	92	93
890-311-5	PH04	92	93
890-311-6	PH05	96	93
890-311-7	PH05 A	91	94
890-311-8	PH06	93	92
890-311-9	PH06 A	92	94
890-311-10	PH07	93	92
890-311-11	PH08	95	94
890-311-12	PH08 A	91	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene			
DFBZ = 1,4-Difluorobenzene			

Method: TPH 8015_NM_MOD - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-311-1	PH01	83	81
890-311-2	PH02	97	98
890-311-3	PH02A	98	88
890-311-4	PH03	101	85
890-311-5	PH04	74	67 **
890-311-6	PH05	80	81
890-311-7	PH05 A	127	110
890-311-8	PH06	73	70
890-311-9	PH06 A	51 **	37 **
890-311-10	PH07	137 **	124

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-311-11	PH08	91	93
890-311-12	PH08 A	113	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7723284-1-BLK

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153580_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/14/21 12:00	03/14/21 23:26	1
Ethylbenzene	<.002	U	.002		mg/kg		03/14/21 12:00	03/14/21 23:26	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/14/21 12:00	03/14/21 23:26	1
o-Xylene	<.002	U	.002		mg/kg		03/14/21 12:00	03/14/21 23:26	1
Toluene	<.002	U	.002		mg/kg		03/14/21 12:00	03/14/21 23:26	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		70 - 130	03/14/21 12:00	03/14/21 23:26	1

Lab Sample ID: 7723284-1-BKS

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153580_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.103		mg/kg		103	70 - 130
Ethylbenzene	.1	0.101		mg/kg		101	71 - 129
m,p-Xylenes	.2	0.209		mg/kg		105	70 - 135
o-Xylene	.1	0.105		mg/kg		105	71 - 133
Toluene	.1	0.0986		mg/kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 7723284-1-BSD

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153580_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.0944		mg/kg		94	70 - 130	9	35
Ethylbenzene	.1	0.0893		mg/kg		89	71 - 129	12	35
m,p-Xylenes	.2	0.182		mg/kg		91	70 - 135	14	35
o-Xylene	.1	0.0922		mg/kg		92	71 - 133	13	35
Toluene	.1	0.0901		mg/kg		90	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130

Lab Sample ID: 691135-004 S

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153580_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<.00198		.0992	0.0827		mg/kg		83	70 - 130
Ethylbenzene	<.00198		.0992	0.0754		mg/kg		76	71 - 129
m,p-Xylenes	<.00397		.198	0.154		mg/kg		78	70 - 135
o-Xylene	<.00198		.0992	0.0783		mg/kg		79	71 - 133
Toluene	<.00198		.0992	0.0775		mg/kg		78	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 691135-004 S

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153580_P

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130

Lab Sample ID: 691135-004 SD

Matrix: SOIL

Analysis Batch: 3153580

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153580_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<.00198		.0992	0.0959		mg/kg		97	70 - 130	15	35
Ethylbenzene	<.00198		.0992	0.0880		mg/kg		89	71 - 129	15	35
m,p-Xylenes	<.00397		.198	0.181		mg/kg		91	70 - 135	16	35
o-Xylene	<.00198		.0992	0.0923		mg/kg		93	71 - 133	16	35
Toluene	<.00198		.0992	0.0892		mg/kg		90	70 - 130	14	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 7723305-1-BLK

Matrix: SOIL

Analysis Batch: 3153614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153614_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/14/21 11:00	03/14/21 23:06	1
Ethylbenzene	<.002	U	.002		mg/kg		03/14/21 11:00	03/14/21 23:06	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/14/21 11:00	03/14/21 23:06	1
o-Xylene	<.002	U	.002		mg/kg		03/14/21 11:00	03/14/21 23:06	1
Toluene	<.002	U	.002		mg/kg		03/14/21 11:00	03/14/21 23:06	1

	BLANK	BLANK							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene	115		70 - 130	03/14/21 11:00	03/14/21 23:06	1			

Lab Sample ID: 7723305-1-BKS

Matrix: SOIL

Analysis Batch: 3153614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153614_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.103		mg/kg		103	70 - 130
Ethylbenzene	.1	0.104		mg/kg		104	71 - 129
m,p-Xylenes	.2	0.210		mg/kg		105	70 - 135
o-Xylene	.1	0.101		mg/kg		101	71 - 133
Toluene	.1	0.105		mg/kg		105	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 7723305-1-BSD

Matrix: SOIL

Analysis Batch: 3153614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153614_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	.1	0.0991		mg/kg		99	70 - 130	4	35
Ethylbenzene	.1	0.102		mg/kg		102	71 - 129	2	35
m,p-Xylenes	.2	0.205		mg/kg		103	70 - 135	2	35
o-Xylene	.1	0.0980		mg/kg		98	71 - 133	3	35
Toluene	.1	0.102		mg/kg		102	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7723302-1-BLK

Matrix: SOIL

Analysis Batch: 3153628

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153628_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/12/21 17:00	03/12/21 21:29	1

Lab Sample ID: 7723302-1-BKS

Matrix: SOIL

Analysis Batch: 3153628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153628_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248		mg/kg		99	80 - 120

Lab Sample ID: 7723302-1-BSD

Matrix: SOIL

Analysis Batch: 3153628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153628_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	248		mg/kg		99	80 - 120	0	20

Lab Sample ID: 7723355-1-BLK

Matrix: SOIL

Analysis Batch: 3153746

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153746_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.66		5		mg/kg		03/15/21 14:45	03/15/21 14:47	1

Lab Sample ID: 7723355-1-BKS

Matrix: SOIL

Analysis Batch: 3153746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153746_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	237		mg/kg		95	80 - 120

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 7723355-1-BSD
Matrix: SOIL
Analysis Batch: 3153746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3153746_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	236		mg/kg		94	80 - 120	0	20

Lab Sample ID: 7723393-1-BLK
Matrix: SOIL
Analysis Batch: 3153748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3153748_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/15/21 16:00	03/15/21 16:34	1

Lab Sample ID: 7723393-1-BKS
Matrix: SOIL
Analysis Batch: 3153748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3153748_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	256		mg/kg		102	80 - 120		

Lab Sample ID: 7723393-1-BSD
Matrix: SOIL
Analysis Batch: 3153748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3153748_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	256		mg/kg		102	80 - 120	0	20

Lab Sample ID: 691135-009 S
Matrix: SOIL
Analysis Batch: 3153748

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3153748_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	118		250	374		mg/kg		102	80 - 120		

Lab Sample ID: 691135-009 SD
Matrix: SOIL
Analysis Batch: 3153748

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3153748_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	118		250	375		mg/kg		103	80 - 120	0	20

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7723335-1-BLK
Matrix: SOIL
Analysis Batch: 3153696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3153696_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 7723335-1-BKS

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153696_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1110		mg/kg		111	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	1180		mg/kg		118	70 - 135

Lab Sample ID: 7723335-1-BSD

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153696_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	999		mg/kg		100	70 - 135	11	20
Gasoline Range Hydrocarbons (GRO)	1000	1090		mg/kg		109	70 - 135	8	20

Lab Sample ID: 691135-001 S

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3153696_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	<50		996	807		mg/kg		81	70 - 135
Gasoline Range Hydrocarbons (GRO)	<50		996	806		mg/kg		81	70 - 135

Lab Sample ID: 691135-001 SD

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3153696_P

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<50		999	823		mg/kg		82	70 - 135	2	20
Gasoline Range Hydrocarbons (GRO)	<50		999	862		mg/kg		86	70 - 135	7	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Subcontract

Analysis Batch: 3153580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-4	PH03	Total/NA	Solid	BTEX 8021	3153580_P
890-311-5	PH04	Total/NA	Solid	BTEX 8021	3153580_P
890-311-6	PH05	Total/NA	Solid	BTEX 8021	3153580_P
890-311-7	PH05 A	Total/NA	Solid	BTEX 8021	3153580_P
890-311-8	PH06	Total/NA	Solid	BTEX 8021	3153580_P
890-311-9	PH06 A	Total/NA	Solid	BTEX 8021	3153580_P
890-311-10	PH07	Total/NA	Solid	BTEX 8021	3153580_P
890-311-11	PH08	Total/NA	Solid	BTEX 8021	3153580_P
890-311-12	PH08 A	Total/NA	Solid	BTEX 8021	3153580_P
7723284-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153580_P
7723284-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153580_P
7723284-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153580_P
691135-004 S	Matrix Spike	Total/NA	SOIL	BTEX 8021	3153580_P
691135-004 SD	Matrix Spike Duplicate	Total/NA	SOIL	BTEX 8021	3153580_P

Analysis Batch: 3153614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	BTEX 8021	3153614_P
890-311-2	PH02	Total/NA	Solid	BTEX 8021	3153614_P
890-311-3	PH02A	Total/NA	Solid	BTEX 8021	3153614_P
7723305-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3153614_P
7723305-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3153614_P
7723305-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3153614_P

Analysis Batch: 3153628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	CHLORIDE E300	3153628_P
890-311-2	PH02	Total/NA	Solid	CHLORIDE E300	3153628_P
890-311-3	PH02A	Total/NA	Solid	CHLORIDE E300	3153628_P
890-311-4	PH03	Total/NA	Solid	CHLORIDE E300	3153628_P
7723302-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153628_P
7723302-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153628_P
7723302-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153628_P

Analysis Batch: 3153696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	TPH	3153696_P
890-311-2	PH02	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-3	PH02A	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-4	PH03	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-5	PH04	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-6	PH05	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-7	PH05 A	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-8	PH06	Total/NA	Solid	8015_NM_MOD TPH	3153696_P

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Subcontract (Continued)

Analysis Batch: 3153696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-9	PH06 A	Total/NA	Solid	TPH	3153696_P
890-311-10	PH07	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-11	PH08	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-311-12	PH08 A	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
7723335-1-BLK	Method Blank	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
7723335-1-BKS	Lab Control Sample	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
7723335-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
691135-001 S	Matrix Spike	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
691135-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P

Analysis Batch: 3153746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-5	PH04	Total/NA	Solid	CHLORIDE E300	3153746_P
890-311-6	PH05	Total/NA	Solid	CHLORIDE E300	3153746_P
890-311-7	PH05 A	Total/NA	Solid	CHLORIDE E300	3153746_P
890-311-8	PH06	Total/NA	Solid	CHLORIDE E300	3153746_P
7723355-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153746_P
7723355-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153746_P
7723355-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153746_P

Analysis Batch: 3153748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-9	PH06 A	Total/NA	Solid	CHLORIDE E300	3153748_P
890-311-10	PH07	Total/NA	Solid	CHLORIDE E300	3153748_P
890-311-11	PH08	Total/NA	Solid	CHLORIDE E300	3153748_P
890-311-12	PH08 A	Total/NA	Solid	CHLORIDE E300	3153748_P
7723393-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153748_P
7723393-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153748_P
7723393-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153748_P
691135-009 S	Matrix Spike	Total/NA	SOIL	CHLORIDE E300	3153748_P
691135-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	CHLORIDE E300	3153748_P

Prep Batch: 3153580_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-4	PH03	Total/NA	Solid	SW5035A	
890-311-5	PH04	Total/NA	Solid	SW5035A	
890-311-6	PH05	Total/NA	Solid	SW5035A	
890-311-7	PH05 A	Total/NA	Solid	SW5035A	
890-311-8	PH06	Total/NA	Solid	SW5035A	
890-311-9	PH06 A	Total/NA	Solid	SW5035A	
890-311-10	PH07	Total/NA	Solid	SW5035A	
890-311-11	PH08	Total/NA	Solid	SW5035A	
890-311-12	PH08 A	Total/NA	Solid	SW5035A	
7723284-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Subcontract (Continued)

Prep Batch: 3153580_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723284-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723284-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	
691135-004 S	Matrix Spike	Total/NA	SOIL	SW5035A	
691135-004 SD	Matrix Spike Duplicate	Total/NA	SOIL	SW5035A	

Prep Batch: 3153614_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	SW5035A	
890-311-2	PH02	Total/NA	Solid	SW5035A	
890-311-3	PH02A	Total/NA	Solid	SW5035A	
7723305-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723305-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723305-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

Prep Batch: 3153628_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	E300P	
890-311-2	PH02	Total/NA	Solid	E300P	
890-311-3	PH02A	Total/NA	Solid	E300P	
890-311-4	PH03	Total/NA	Solid	E300P	
7723302-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723302-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723302-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153696_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-1	PH01	Total/NA	Solid	SW8015P	
890-311-2	PH02	Total/NA	Solid	SW8015P	
890-311-3	PH02A	Total/NA	Solid	SW8015P	
890-311-4	PH03	Total/NA	Solid	SW8015P	
890-311-5	PH04	Total/NA	Solid	SW8015P	
890-311-6	PH05	Total/NA	Solid	SW8015P	
890-311-7	PH05 A	Total/NA	Solid	SW8015P	
890-311-8	PH06	Total/NA	Solid	SW8015P	
890-311-9	PH06 A	Total/NA	Solid	SW8015P	
890-311-10	PH07	Total/NA	Solid	SW8015P	
890-311-11	PH08	Total/NA	Solid	SW8015P	
890-311-12	PH08 A	Total/NA	Solid	SW8015P	
7723335-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723335-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723335-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691135-001 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691135-001 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Subcontract

Prep Batch: 3153746_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-5	PH04	Total/NA	Solid	E300P	
890-311-6	PH05	Total/NA	Solid	E300P	
890-311-7	PH05 A	Total/NA	Solid	E300P	
890-311-8	PH06	Total/NA	Solid	E300P	
7723355-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723355-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723355-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

Prep Batch: 3153748_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-311-9	PH06 A	Total/NA	Solid	E300P	
890-311-10	PH07	Total/NA	Solid	E300P	
890-311-11	PH08	Total/NA	Solid	E300P	
890-311-12	PH08 A	Total/NA	Solid	E300P	
7723393-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723393-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723393-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	
691135-009 S	Matrix Spike	Total/NA	SOIL	***DEFAULT PREP***	
691135-009 SD	Matrix Spike Duplicate	Total/NA	SOIL	***DEFAULT PREP***	

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH01

Lab Sample ID: 890-311-1

Date Collected: 03/09/21 09:16

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153614_P	03/14/21 11:00		XM
Total/NA	Analysis	BTEX 8021		1	3153614	03/15/21 06:19	KTL	XM
Total/NA	Prep	E300P		1	3153628_P	03/12/21 17:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153628	03/12/21 23:44	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 13:30	ARM	XM

Client Sample ID: PH02

Lab Sample ID: 890-311-2

Date Collected: 03/09/21 09:25

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153614_P	03/14/21 11:00		XM
Total/NA	Analysis	BTEX 8021		1	3153614	03/15/21 06:39	KTL	XM
Total/NA	Prep	E300P		1	3153628_P	03/12/21 17:00		XM
Total/NA	Analysis	CHLORIDE E300		5	3153628	03/12/21 23:49	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 14:34	ARM	XM

Client Sample ID: PH02A

Lab Sample ID: 890-311-3

Date Collected: 03/09/21 09:28

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153614_P	03/14/21 11:00		XM
Total/NA	Analysis	BTEX 8021		1	3153614	03/15/21 07:00	KTL	XM
Total/NA	Prep	E300P		1	3153628_P	03/12/21 17:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153628	03/12/21 23:54	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 14:56	ARM	XM

Client Sample ID: PH03

Lab Sample ID: 890-311-4

Date Collected: 03/09/21 09:37

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/14/21 23:48	KTL	XM
Total/NA	Prep	E300P		1	3153628_P	03/12/21 17:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153628	03/12/21 23:59	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 15:17	ARM	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH04

Lab Sample ID: 890-311-5

Date Collected: 03/09/21 09:45

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 00:08	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		10	3153746	03/15/21 22:47	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 15:39	ARM	XM

Client Sample ID: PH05

Lab Sample ID: 890-311-6

Date Collected: 03/09/21 09:53

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 00:29	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		10	3153746	03/15/21 22:52	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 16:00	ARM	XM

Client Sample ID: PH05 A

Lab Sample ID: 890-311-7

Date Collected: 03/09/21 09:54

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 00:49	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		1	3153746	03/15/21 22:58	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 16:21	ARM	XM

Client Sample ID: PH06

Lab Sample ID: 890-311-8

Date Collected: 03/09/21 10:05

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 01:10	KTL	XM
Total/NA	Prep	E300P		1	3153746_P	03/15/21 14:45		XM
Total/NA	Analysis	CHLORIDE E300		5	3153746	03/15/21 23:03	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 16:43	ARM	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Client Sample ID: PH06 A

Lab Sample ID: 890-311-9

Date Collected: 03/09/21 10:07

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 01:30	KTL	XM
Total/NA	Prep	E300P		1	3153748_P	03/15/21 16:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153748	03/15/21 16:51	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 17:05	ARM	XM

Client Sample ID: PH07

Lab Sample ID: 890-311-10

Date Collected: 03/09/21 10:15

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 01:50	KTL	XM
Total/NA	Prep	E300P		1	3153748_P	03/15/21 16:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153748	03/15/21 17:08	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 17:26	ARM	XM

Client Sample ID: PH08

Lab Sample ID: 890-311-11

Date Collected: 03/09/21 10:28

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 02:11	KTL	XM
Total/NA	Prep	E300P		1	3153748_P	03/15/21 16:00		XM
Total/NA	Analysis	CHLORIDE E300		5	3153748	03/15/21 17:13	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 18:09	ARM	XM

Client Sample ID: PH08 A

Lab Sample ID: 890-311-12

Date Collected: 03/09/21 10:29

Matrix: Solid

Date Received: 03/09/21 12:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3153580_P	03/14/21 12:00		XM
Total/NA	Analysis	BTEX 8021		1	3153580	03/15/21 02:31	KTL	XM
Total/NA	Prep	E300P		1	3153748_P	03/15/21 16:00		XM
Total/NA	Analysis	CHLORIDE E300		1	3153748	03/15/21 17:19	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 18:30	ARM	XM

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Method	Method Description	Protocol	Laboratory
Subcontract	BTEX 8021	None	XM
Subcontract	CHLORIDE E300	None	XM
Subcontract	TPH 8015_NM_MOD	None	XM

Protocol References:

None = None

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 15 TWR CTB

Job ID: 890-311-1
SDG: TE012921015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-311-1	PH01	Solid	03/09/21 09:16	03/09/21 12:52	
890-311-2	PH02	Solid	03/09/21 09:25	03/09/21 12:52	
890-311-3	PH02A	Solid	03/09/21 09:28	03/09/21 12:52	
890-311-4	PH03	Solid	03/09/21 09:37	03/09/21 12:52	
890-311-5	PH04	Solid	03/09/21 09:45	03/09/21 12:52	
890-311-6	PH05	Solid	03/09/21 09:53	03/09/21 12:52	
890-311-7	PH05 A	Solid	03/09/21 09:54	03/09/21 12:52	
890-311-8	PH06	Solid	03/09/21 10:05	03/09/21 12:52	
890-311-9	PH06 A	Solid	03/09/21 10:07	03/09/21 12:52	
890-311-10	PH07	Solid	03/09/21 10:15	03/09/21 12:52	
890-311-11	PH08	Solid	03/09/21 10:28	03/09/21 12:52	
890-311-12	PH08 A	Solid	03/09/21 10:29	03/09/21 12:52	

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Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (602) 382-7550 Atlanta, GA (770) 449-8800 Tampa, FL (813) 233-3927
Hobbs, NM (575) 392-7550

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Chain of Custody

Work Order No:

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments									
Program: UST/ST		<input type="checkbox"/> RP	<input type="checkbox"/> Growfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund	<input type="checkbox"/>			
State of Project:									
Reporting: Level II		<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RP	<input type="checkbox"/> Level IV	<input type="checkbox"/>			
Deliverables: EDD		<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:				

Project Name:	PLU 15 TWR CTB	Turn Around
Project Number:	TE012921015	Route <input type="checkbox"/>
P.O. Number:	Eddy	Rush:
Sampler's Name:	William Mather	Due Date:

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes	No	Wet Ice:	<input checked="" type="checkbox"/> Yes	No
Temperature (°C):	4.2/4.0			Thermometer ID	2MM-007	
Received In tact:	Yes	No				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:		
Sample Custody Seals:	Yes	No	N/A	Total Containers:		

[illegible][illegible]

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 H Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCIP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag I I U 163 / 243 / 240 / 241

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>M. [Signature]</i>	<i>Clare [Signature]</i>	3.9.21 1252			
3		4			
5		6			

Revised Date 05/14/18 Row 2018



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Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 833-3922
Hobbs, NM (575-392-7550)

Work Order No: _____

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Chain of Custody

Project Manager:		Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:		WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:		3300 North A Street	Address:	
City, State ZIP:		Midland, Tx 79705	City, State ZIP:	
Phone:		(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Growntfields <input type="checkbox"/> RC <input checked="" type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:				
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[illegible]

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
<i>Circle Method(s) and Metal(s) to be analyzed</i>			TCLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												
<p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p>																																	
1631/1245.117470.17474.Hg																																	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3-9-21 4:55	1 		
2			2		
3			3		
4			4		
5			5		
6			6		

Revised Date 05/14/18 Rev. 2018

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-311-1

SDG Number: TE012921015

Login Number: 311

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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 22347

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707	OGRID: 5380	Action Number: 22347	Action Type: C-141
OCD Reviewer chensley	Condition None		