

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	NAPP2118934484
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email shelby.pennington@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.31903 Longitude -103.94152
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nash 39	Site Type Tank Battery
Date Release Discovered 07/03/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	12	23S	29E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 2.88	Volume Recovered (bbls) 2.78
☒ Produced Water	Volume Released (bbls) 573.77	Volume Recovered (bbls) 552.23
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Nash 39 PW tanks caught fire due to lightning strike. Fire department was dispatched immediately and extinguished the fire. Vacuum trucks recovered standing fluids. A third-party contractor has been retained for remediation activities.

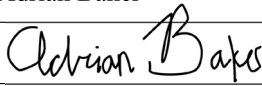
State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release that results in a fire or is the result of a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Garrett Green to Mike Bratcher'; 'Victoria Venegas'; 'Rob Hamlet'; 'camorgan@blm.gov'; 'blm_nm_cfo_spill@blm.gov' on Sunday, July 4, 2021 10:57 AM via email.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <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: Adrian Baker	Title: SSHE Coordinator
Signature: 	Date: 7/8/2021
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 7/8/2021

Location:	Nash 39 Battery		
Spill Date:	7/3/2021		
Area 1			
Approximate Area =	12966.00	sq. ft.	
Average Saturation (or depth) of spill =	0.75	inches	
Average Porosity Factor =	0.15		
VOLUME OF LEAK			
Total Crude Oil =	2.88	bbls	
Total Produced Water =	573.77	bbls	
TOTAL VOLUME OF LEAK			
Total Crude Oil =	2.88	bbls	
Total Produced Water =	573.77	bbls	
TOTAL VOLUME RECOVERED			
Total Crude Oil =	2.78	bbls	
Total Produced Water =	552.23	bbls	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☒ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: _____ Adrian Baker _____

Title: _____ Environmental Coordinator _____

Signature: _____


Date: _____ 01/01/2022 _____

Email: _____ adrian.baker@exxonmobil.com _____

Telephone: _____ 432-236-3808 _____

OCD Only

Received by: _____

Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Adrian Baker _____

Title: _____ Environmental Coordinator _____

Signature: _____


Date: _____ 01/01/2022 _____

Email: _____ adrian.baker@exxonmobil.com _____

Telephone: _____ 432-236-3808 _____

OCD Only

Received by: _____ Chad Hensley _____ Date: _____ 02/18/2022 _____

Released to Imaging: 4/28/2022 12:57:36 PM

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____


Date: _____ 02/18/2022 _____

Incident ID	NAPP2118934484
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Adrian Baker _____ Title: _____ Environmental Coordinator _____

Signature: Adrian Baker _____ Date: April 18, 2022 _____

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui _____ Date: 04/28/2022 _____

Printed Name: Jennifer Nobui _____ Title: Environmental Specialist A _____



WSP USA

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

April 18, 2022

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

**Re: Closure Request
Nash 39 Tank Battery
Incident Number NAPP2118934484
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 as a follow up to the approved Remediation Work Plan (Work Plan) that was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 1, 2022. This Closure Request details excavation activities completed at the Nash 39 Tank Battery (Site) in Unit K, Section 12, Township 23 South, Range 29 East, in Eddy County, New Mexico following NMOCD approval of the Work Plan. Based on the excavation and soil sampling activities described below, XTO is requesting no further action (NFA) for Incident Number NAPP2118934484.

BACKGROUND

On July 3, 2021, produced water tanks caught fire due to a lightning strike, resulting in the release of 2.88 barrels (bbls) of crude oil and 573.77 bbls of produced water into the damaged containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 2.78 bbls of crude oil and 552.23 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 4, 2021, and a Release Notification Form C-141 (Form C-141) was submitted July 8, 2021. The release was assigned Incident Number NAPP2118934484.

Following delineation of the release extent and collection of background soil samples, XTO submitted a Work Plan to the NMOCD. The Work Plan detailed the delineation activities and proposed excavation of impacted soil to below Site Closure Criteria for hydrocarbons and to below a background chloride concentration of 30,200 mg/kg, based on the proximity to the salt lake. Due to the estimated excavation size, the Work Plan also requested a sampling variance for



the frequency of excavation confirmation samples to every 500 square feet. The Work Plan was approved by NMOCD on February 18, 2022, with the following conditions of approval:

- *The OCD does NOT approve the background chloride concentration of 30,200 mg/kg as closure criteria.*
- *The OCD will accept closure for chlorides at 20,000.*
- *Closure report due 04/18/2022.*

CLOSURE CRITERIA

The approved Work Plan detailed site characterization 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). Based on the site characterization, the following Closure Criteria applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Between December 6, 2021 and February 28, 2022, WSP personnel were at the Site to oversee excavation of impacted soil as outlined in the approved Work Plan. A background chloride concentration of 20,000 mg/kg chloride was applied to the Site in accordance with the NMOCD conditions of approval.

Excavation activities were completed using a track-mounted backhoe. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a photo ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples at a frequency of at least every 500 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS34 and FS08A were collected from the floor of the excavation at depths ranging from 0.5 feet to 1.5 ft bgs. Due to the shallow depth of the excavation, the floor samples were also representative of the sidewalls. The excavation extent and excavation soil sample locations are presented on Figure 1. Photographic documentation of the excavation activities is included in Attachment 1.

The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC)



District II

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procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The excavation area measured approximately 15,680 square feet. A total of approximately 300 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS07, FS08A, and FS09 through FS34 indicated that benzene, BTEX, and TPH concentrations were compliant with the Site Closure Criteria and chloride concentrations were compliant with the NMOCD approved background chloride concentration of 20,000 mg/kg. Floor sample FS08, collected at 0.5 feet bgs, initially exceeded the Closure Criteria for TPH. Additional excavation was completed in this area and subsequent floor sample FS08A, collected at 1.5 feet bgs, was compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Attachment 2.

CLOSURE REQUEST

Excavation and soil sampling activities were conducted at the Site as outlined in the approved Work Plan. Based on final excavation sample analytical results compliant with the Site Closure Criteria and the NMOCD approved background chloride concentration, XTO respectfully requests NFA for Incident Number NAPP2118934484. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365 or Aimee.Cole@wsp.com.

Kind regards,

A handwritten signature in grey ink that reads 'pbenner'.

Payton Benner
Assistant Consultant, Geologist

A handwritten signature in grey ink that reads 'Aimee Cole'.

Aimee Cole
Sr. Consultant, Environmental Scientist



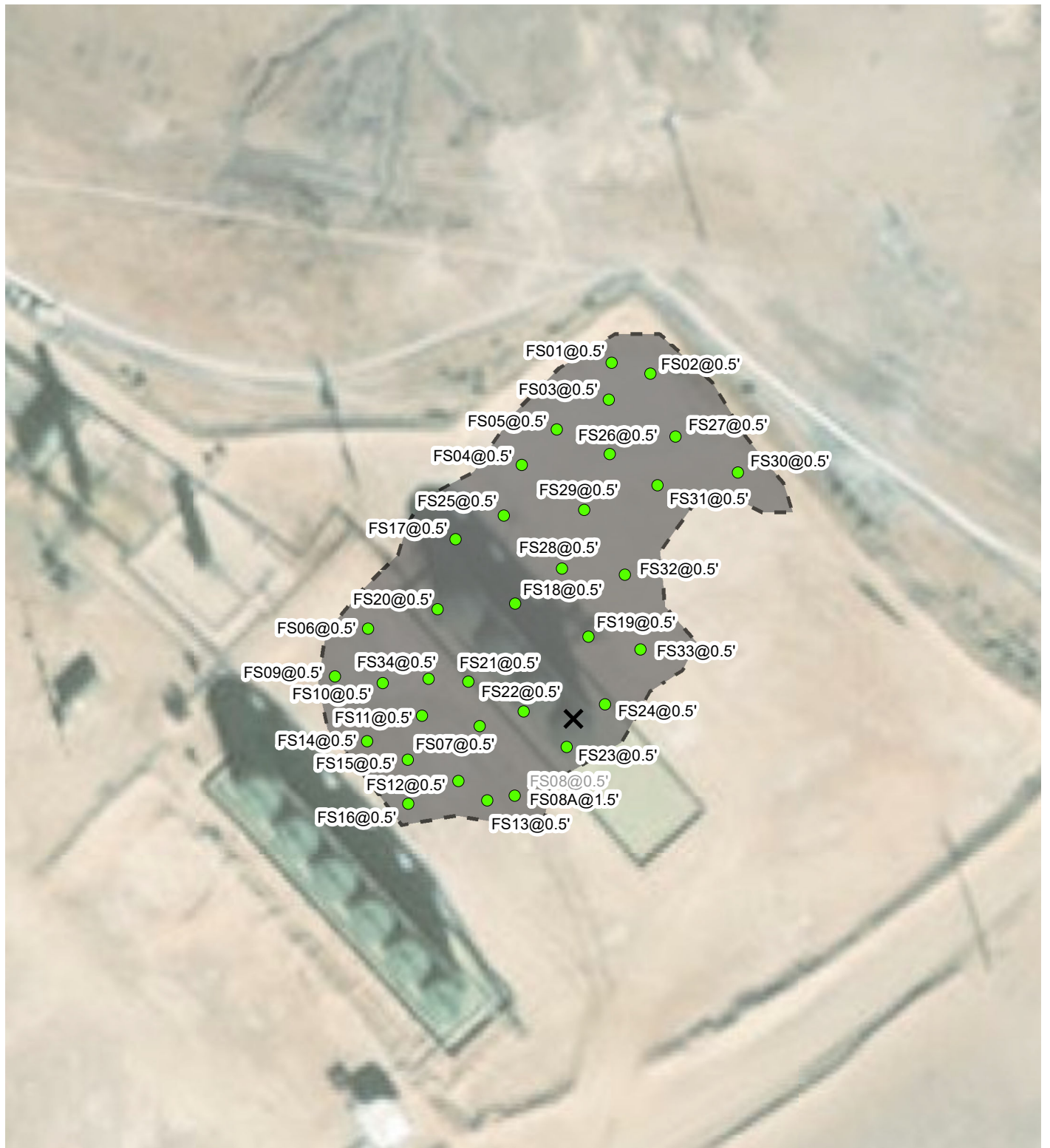
District II
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cc: Shelby Pennington, XTO
Adrian Baker, XTO
Bureau of Land Management

Attachments:

Figure 1	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Photographic Log
Attachment 2	Laboratory Analytical Reports

FIGURES

**LEGEND**

RELEASE LOCATION

FLOOR SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2118934484
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE
 THAT WAS REMOVED

IMAGE COURTESY OF ESRI

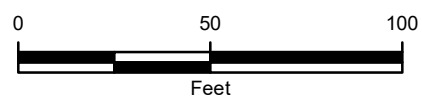


FIGURE 1
EXCAVATION SOIL SAMPLE LOCATIONS
 NASH 39 TANK BATTERY
 UNIT K SEC 12 T23S R29E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
Nash 39 Tank Battery
NAPP2118934484
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Chloride Criteria										20,000
Excavation Floor Samples										
FS01	12/07/2021	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	1,120
FS02	12/07/2021	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	931
FS03	12/7/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,070
FS04	12/07/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,590
FS05	12/07/2021	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	3,630
FS06	12/07/2021	0.5	<0.00200	<0.00400	54.5	<49.9	<49.9	<49.9	54.5	2,740
FS07	12/07/2021	0.5	<0.00199	<0.00398	72.6	<49.9	<49.9	<49.9	72.6	2,750
FS08	12/7/2022	0.5	<0.00201	<0.00402	128	<50.0	<50.0	<50.0	128	1,490
FS08A	02/28/2022	1.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	742
FS09	12/07/2021	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	2,490
FS10	12/07/2021	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	2,450
FS11	12/07/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,790
FS12	12/06/2021	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	2,050
FS13	12/06/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,940
FS14	12/06/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	2,980
FS15	12/06/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,200
FS16	12/06/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	2,520
FS17	12/21/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,260
FS18	12/21/2021	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	2,990
FS19	12/21/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	3,040

Table 1

Soil Analytical Results
Nash 39 Tank Battery
NAPP2118934484
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Chloride Criteria										20,000
FS20	12/21/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,350
FS21	12/21/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,240
FS22	12/21/2021	0.5	<0.00200	<0.00399	94.7	<49.9	<49.9	<49.9	94.7	3,900
FS23	12/21/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	607
FS24	12/21/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	872
FS25	12/21/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,680
FS26	12/21/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,090
FS27	12/21/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,200
FS28	12/21/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,270
FS29	12/21/2021	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,710
FS30	12/21/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	277
FS31	12/21/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	736
FS32	12/21/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	618
FS33	12/21/2021	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,080
FS34	12/21/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,920

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - 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: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy	Nash 39 Tank Battery Eddy County, New Mexico	NAPP2118934484

Photo No.	Date	
1	December 7, 2021	
Excavation progress facing northwest		A photograph of an industrial excavation site. In the background, there are large, dark-colored storage tanks and a yellow CAT excavator. The ground is sandy and uneven, with tire tracks visible. The sky is blue with scattered white clouds. A shadow of the person taking the photo is visible in the bottom right corner.



PHOTOGRAPHIC LOG		
XTO Energy	Nash 39 Tank Battery Eddy County, New Mexico	NAPP2118934484

Photo No.	Date	
2	December 7, 2021	
Excavation extent facing northeast		A photograph showing a large, deep excavation site. The ground is uneven and covered with loose, brown soil and rocks. In the background, there is a flat, arid landscape under a clear blue sky. A utility pole is visible on the right side of the image.



PHOTOGRAPHIC LOG		
XTO Energy	Nash 39 Tank Battery Eddy County, New Mexico	NAPP2118934484

Photo No.	Date	
3	December 7, 2021	
Excavation extent facing northwest		

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1709-1

Laboratory SDG: 31403236.0120.0129 task 05.02

Client Project/Site: Nash Unit 39

Revision: 1

For:

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

Attn: Tacoma Morrissey

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

Authorized for release by:
12/29/2021 10:19:09 AM

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

LINKS

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

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

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Laboratory Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Job ID: 890-1709-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1709-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 12/16/2021. The report (revision 1) is being revised due to: Per client email, revised sample IDs

Receipt

The samples were received on 12/14/2021 8:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC VOA

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

GC Semi VOA

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14794 and analytical batch 880-14897 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14981 and analytical batch 880-15012 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B NM: The continuing calibration verification (CCV) associated with batch 880-15012 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-15012/73).

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS01

Lab Sample ID: 890-1709-1

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/14/21 10:00	12/14/21 15:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/14/21 10:00	12/14/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/14/21 10:00	12/14/21 15:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/14/21 10:00	12/14/21 15:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0	mg/Kg		12/14/21 16:40	12/16/21 11:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U F2	50.0	mg/Kg		12/14/21 16:40	12/16/21 11:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/14/21 16:40	12/16/21 11:19	1
o-Terphenyl	91		70 - 130	12/14/21 16:40	12/16/21 11:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		49.8	mg/Kg			12/15/21 12:43	10

Client Sample ID: FS02

Lab Sample ID: 890-1709-2

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/14/21 10:00	12/14/21 15:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 15:37	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/14/21 10:00	12/14/21 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/14/21 10:00	12/14/21 15:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS02

Lab Sample ID: 890-1709-2

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	12/14/21 10:00	12/14/21 15:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 12:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 12:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			12/14/21 16:40	12/16/21 12:23	1
o-Terphenyl	115		70 - 130			12/14/21 16:40	12/16/21 12:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		49.5	mg/Kg			12/15/21 12:52	10

Client Sample ID: FS03

Lab Sample ID: 890-1709-3

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 15:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 15:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 15:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 15:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/14/21 10:00	12/14/21 15:58	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/14/21 10:00	12/14/21 15:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS03

Lab Sample ID: 890-1709-3

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			12/14/21 16:40	12/16/21 12:44	1
o-Terphenyl	95		70 - 130			12/14/21 16:40	12/16/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		50.1	mg/Kg			12/15/21 13:17	10

Client Sample ID: FS04

Lab Sample ID: 890-1709-4

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/14/21 10:00	12/14/21 16:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/14/21 10:00	12/14/21 16:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 14:49	12/15/21 02:52	1
o-Terphenyl	94		70 - 130			12/14/21 14:49	12/15/21 02:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS04

Lab Sample ID: 890-1709-4

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		49.7	mg/Kg			12/15/21 13:25	10

Client Sample ID: FS05

Lab Sample ID: 890-1709-5

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/14/21 10:00	12/14/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/14/21 10:00	12/14/21 17:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/14/21 10:00	12/14/21 17:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			12/14/21 14:49	12/15/21 03:12	1
o-Terphenyl	95		70 - 130			12/14/21 14:49	12/15/21 03:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3630		49.8	mg/Kg			12/15/21 13:50	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS06

Lab Sample ID: 890-1709-6

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 18:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 18:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/14/21 10:00	12/14/21 18:01	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/14/21 10:00	12/14/21 18:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.5		49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:33	1
Diesel Range Organics (Over C10-C28)	54.5		49.9	mg/Kg		12/14/21 14:49	12/15/21 03:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	12/14/21 14:49	12/15/21 03:33	1
o-Terphenyl	111		70 - 130	12/14/21 14:49	12/15/21 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2740		49.5	mg/Kg			12/15/21 13:59	10

Client Sample ID: FS07

Lab Sample ID: 890-1709-7

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 18:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 18:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 18:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 18:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/14/21 10:00	12/14/21 18:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS07

Lab Sample ID: 890-1709-7

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	12/14/21 10:00	12/14/21 18:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.6		49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:54	1
Diesel Range Organics (Over C10-C28)	72.6		49.9	mg/Kg		12/14/21 14:49	12/15/21 03:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 14:49	12/15/21 03:54	1
o-Terphenyl	89		70 - 130			12/14/21 14:49	12/15/21 03:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2750		50.0	mg/Kg			12/15/21 14:07	10

Client Sample ID: FS08

Lab Sample ID: 890-1709-8

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:00	12/14/21 18:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:00	12/14/21 18:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:00	12/14/21 18:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 10:00	12/14/21 18:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 10:00	12/14/21 18:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 10:00	12/14/21 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/14/21 10:00	12/14/21 18:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/14/21 10:00	12/14/21 18:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	128		50.0	mg/Kg			12/15/21 16:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS08

Lab Sample ID: 890-1709-8

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 04:15	1
Diesel Range Organics (Over C10-C28)	128		50.0	mg/Kg		12/14/21 14:49	12/15/21 04:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 04:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			12/14/21 14:49	12/15/21 04:15	1
o-Terphenyl	92		70 - 130			12/14/21 14:49	12/15/21 04:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		50.1	mg/Kg			12/15/21 14:16	10

Client Sample ID: FS09

Lab Sample ID: 890-1709-9

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 10:00	12/14/21 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			12/14/21 10:00	12/14/21 19:02	1
1,4-Difluorobenzene (Surr)	112		70 - 130			12/14/21 10:00	12/14/21 19:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/15/21 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 04:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 04:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			12/14/21 14:49	12/15/21 04:37	1
o-Terphenyl	95		70 - 130			12/14/21 14:49	12/15/21 04:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS09

Lab Sample ID: 890-1709-9

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2490		49.5	mg/Kg			12/15/21 14:24	10

Client Sample ID: FS10

Lab Sample ID: 890-1709-10

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/14/21 10:00	12/14/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			12/14/21 10:00	12/14/21 19:22	1
1,4-Difluorobenzene (Surr)	108		70 - 130			12/14/21 10:00	12/14/21 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/15/21 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 04:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 04:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/14/21 14:49	12/15/21 04:58	1
o-Terphenyl	93		70 - 130			12/14/21 14:49	12/15/21 04:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		50.4	mg/Kg			12/15/21 14:32	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS11

Lab Sample ID: 890-1709-11

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 19:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 19:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 19:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 19:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 19:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/14/21 10:00	12/14/21 19:43	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/14/21 10:00	12/14/21 19:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/15/21 16:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 05:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 05:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/14/21 14:49	12/15/21 05:19	1
o-Terphenyl	94		70 - 130	12/14/21 14:49	12/15/21 05:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		50.0	mg/Kg			12/15/21 14:41	10

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1699-A-1-A MS	Matrix Spike	103	99
890-1699-A-1-B MSD	Matrix Spike Duplicate	107	104
890-1709-1	FS01	109	103
890-1709-2	FS02	126	111
890-1709-3	FS03	122	108
890-1709-4	FS04	116	100
890-1709-5	FS05	124	101
890-1709-6	FS06	123	103
890-1709-7	FS07	123	88
890-1709-8	FS08	116	108
890-1709-9	FS09	137 S1+	112
890-1709-10	FS10	123	108
890-1709-11	FS11	126	89
LCS 880-14660/1-A	Lab Control Sample	99	105
LCSD 880-14660/2-A	Lab Control Sample Dup	104	108
MB 880-14660/5-A	Method Blank	117	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1700-A-1-G MS	Matrix Spike	89	85
890-1700-A-1-H MSD	Matrix Spike Duplicate	93	83
890-1709-1	FS01	91	91
890-1709-1 MS	FS01	84	86
890-1709-1 MSD	FS01	105	106
890-1709-2	FS02	114	115
890-1709-3	FS03	95	95
890-1709-4	FS04	99	94
890-1709-5	FS05	101	95
890-1709-6	FS06	112	111
890-1709-7	FS07	99	89
890-1709-8	FS08	97	92
890-1709-9	FS09	106	95
890-1709-10	FS10	104	93
890-1709-11	FS11	105	94
890-1713-A-1-D MS	Matrix Spike	72	76
890-1713-A-1-E MSD	Matrix Spike Duplicate	74	77
LCS 880-14981/2-A	Lab Control Sample	78	81
LCSD 880-14981/3-A	Lab Control Sample Dup	75	82
MB 880-14981/1-A	Method Blank	105	123
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2	OTPH2
		(70-130)	(70-130)
LCS 880-14782/2-A	Lab Control Sample	103	91
LCS 880-14794/2-A	Lab Control Sample	115	119
LCSD 880-14782/3-A	Lab Control Sample Dup	120	111
LCSD 880-14794/3-A	Lab Control Sample Dup	102	109
MB 880-14782/1-A	Method Blank	91	89
MB 880-14794/1-A	Method Blank	102	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/14/21 07:30	12/14/21 10:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/14/21 07:30	12/14/21 10:41	1

Lab Sample ID: LCS 880-14660/1-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08602		mg/Kg		86	70 - 130
Toluene	0.100	0.07927		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07784		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1589		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07845		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-14660/2-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	15	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08966		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09067		mg/Kg		91	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0370		0.101	0.09777		mg/Kg					
Toluene	0.0642		0.101	0.09286		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.00482		0.101	0.09246		mg/Kg					
m-Xylene & p-Xylene	0.0144		0.201	0.1911		mg/Kg					
o-Xylene	0.00334		0.101	0.09407		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1699-A-1-A MS

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-14782/1-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14782

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/14/21 14:49	12/14/21 20:54	1
o-Terphenyl	89		70 - 130	12/14/21 14:49	12/14/21 20:54	1

Lab Sample ID: LCS 880-14782/2-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	944.6		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Lab Sample ID: LCSD 880-14782/3-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1700-A-1-G MS

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	899.8		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	917.4		mg/Kg		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: 890-1700-A-1-H MSD

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	902.0		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.2		mg/Kg		93	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-14794/1-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14794

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Lab Sample ID: MB 880-14794/1-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14794

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/14/21 16:40	12/16/21 10:15	1
o-Terphenyl	104		70 - 130	12/14/21 16:40	12/16/21 10:15	1

Lab Sample ID: LCS 880-14794/2-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-14794/3-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	898.3		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	880.0		mg/Kg		88	70 - 130	19	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-1709-1 MS

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	996	916.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F2	996	978.6		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Lab Sample ID: 890-1709-1 MSD

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	995	1433	F1 F2	mg/Kg		142	70 - 130	44	20
Diesel Range Organics (Over C10-C28)	<50.0	U F2	995	1226	F2	mg/Kg		122	70 - 130	22	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	106		70 - 130								

Lab Sample ID: MB 880-14981/1-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14981

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 15:12	12/18/21 04:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			12/16/21 15:12	12/18/21 04:20	1
o-Terphenyl	123		70 - 130			12/16/21 15:12	12/18/21 04:20	1

Lab Sample ID: LCS 880-14981/2-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	909.7		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	706.6		mg/Kg		71	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	78		70 - 130						
o-Terphenyl	81		70 - 130						

Lab Sample ID: LCSD 880-14981/3-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	899.7		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	709.1		mg/Kg		71	70 - 130	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Lab Sample ID: LCSD 880-14981/3-A

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14981

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1713-A-1-D MS

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	817.4		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	716.4	F1	mg/Kg		69	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-1713-A-1-E MSD

Matrix: Solid

Analysis Batch: 15012

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	904.1		mg/Kg		87	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	729.3		mg/Kg		70	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14792/1-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/15/21 09:09	1

Lab Sample ID: LCS 880-14792/2-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-14792/3-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1709-2 MS

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	931		2480	3403		mg/Kg		100	90 - 110		

Lab Sample ID: 890-1709-2 MSD

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	931		2480	3392		mg/Kg		99	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	5035	
890-1709-2	FS02	Total/NA	Solid	5035	
890-1709-3	FS03	Total/NA	Solid	5035	
890-1709-4	FS04	Total/NA	Solid	5035	
890-1709-5	FS05	Total/NA	Solid	5035	
890-1709-6	FS06	Total/NA	Solid	5035	
890-1709-7	FS07	Total/NA	Solid	5035	
890-1709-8	FS08	Total/NA	Solid	5035	
890-1709-9	FS09	Total/NA	Solid	5035	
890-1709-10	FS10	Total/NA	Solid	5035	
890-1709-11	FS11	Total/NA	Solid	5035	
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	8021B	14660
890-1709-2	FS02	Total/NA	Solid	8021B	14660
890-1709-3	FS03	Total/NA	Solid	8021B	14660
890-1709-4	FS04	Total/NA	Solid	8021B	14660
890-1709-5	FS05	Total/NA	Solid	8021B	14660
890-1709-6	FS06	Total/NA	Solid	8021B	14660
890-1709-7	FS07	Total/NA	Solid	8021B	14660
890-1709-8	FS08	Total/NA	Solid	8021B	14660
890-1709-9	FS09	Total/NA	Solid	8021B	14660
890-1709-10	FS10	Total/NA	Solid	8021B	14660
890-1709-11	FS11	Total/NA	Solid	8021B	14660
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	8021B	14660
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14660
890-1699-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14660

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	Total BTEX	
890-1709-2	FS02	Total/NA	Solid	Total BTEX	
890-1709-3	FS03	Total/NA	Solid	Total BTEX	
890-1709-4	FS04	Total/NA	Solid	Total BTEX	
890-1709-5	FS05	Total/NA	Solid	Total BTEX	
890-1709-6	FS06	Total/NA	Solid	Total BTEX	
890-1709-7	FS07	Total/NA	Solid	Total BTEX	
890-1709-8	FS08	Total/NA	Solid	Total BTEX	
890-1709-9	FS09	Total/NA	Solid	Total BTEX	
890-1709-10	FS10	Total/NA	Solid	Total BTEX	
890-1709-11	FS11	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	8015 NM	
890-1709-2	FS02	Total/NA	Solid	8015 NM	
890-1709-3	FS03	Total/NA	Solid	8015 NM	
890-1709-4	FS04	Total/NA	Solid	8015 NM	
890-1709-5	FS05	Total/NA	Solid	8015 NM	
890-1709-6	FS06	Total/NA	Solid	8015 NM	
890-1709-7	FS07	Total/NA	Solid	8015 NM	
890-1709-8	FS08	Total/NA	Solid	8015 NM	
890-1709-9	FS09	Total/NA	Solid	8015 NM	
890-1709-10	FS10	Total/NA	Solid	8015 NM	
890-1709-11	FS11	Total/NA	Solid	8015 NM	

Analysis Batch: 14716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-4	FS04	Total/NA	Solid	8015B NM	14782
890-1709-5	FS05	Total/NA	Solid	8015B NM	14782
890-1709-6	FS06	Total/NA	Solid	8015B NM	14782
890-1709-7	FS07	Total/NA	Solid	8015B NM	14782
890-1709-8	FS08	Total/NA	Solid	8015B NM	14782
890-1709-9	FS09	Total/NA	Solid	8015B NM	14782
890-1709-10	FS10	Total/NA	Solid	8015B NM	14782
890-1709-11	FS11	Total/NA	Solid	8015B NM	14782
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015B NM	14782
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14782
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14782
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	14782
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14782

Prep Batch: 14782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-4	FS04	Total/NA	Solid	8015NM Prep	
890-1709-5	FS05	Total/NA	Solid	8015NM Prep	
890-1709-6	FS06	Total/NA	Solid	8015NM Prep	
890-1709-7	FS07	Total/NA	Solid	8015NM Prep	
890-1709-8	FS08	Total/NA	Solid	8015NM Prep	
890-1709-9	FS09	Total/NA	Solid	8015NM Prep	
890-1709-10	FS10	Total/NA	Solid	8015NM Prep	
890-1709-11	FS11	Total/NA	Solid	8015NM Prep	
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 14794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	8015NM Prep	
890-1709-2	FS02	Total/NA	Solid	8015NM Prep	
890-1709-3	FS03	Total/NA	Solid	8015NM Prep	
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

GC Semi VOA (Continued)

Prep Batch: 14794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1709-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1709-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Total/NA	Solid	8015B NM	14794
890-1709-2	FS02	Total/NA	Solid	8015B NM	14794
890-1709-3	FS03	Total/NA	Solid	8015B NM	14794
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015B NM	14794
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14794
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14794
890-1709-1 MS	FS01	Total/NA	Solid	8015B NM	14794
890-1709-1 MSD	FS01	Total/NA	Solid	8015B NM	14794

Prep Batch: 14981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14981/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14981/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14981/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1713-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1713-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14981/1-A	Method Blank	Total/NA	Solid	8015B NM	14981
LCS 880-14981/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14981
LCSD 880-14981/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14981
890-1713-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	14981
890-1713-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14981

HPLC/IC

Leach Batch: 14792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Soluble	Solid	DI Leach	
890-1709-2	FS02	Soluble	Solid	DI Leach	
890-1709-3	FS03	Soluble	Solid	DI Leach	
890-1709-4	FS04	Soluble	Solid	DI Leach	
890-1709-5	FS05	Soluble	Solid	DI Leach	
890-1709-6	FS06	Soluble	Solid	DI Leach	
890-1709-7	FS07	Soluble	Solid	DI Leach	
890-1709-8	FS08	Soluble	Solid	DI Leach	
890-1709-9	FS09	Soluble	Solid	DI Leach	
890-1709-10	FS10	Soluble	Solid	DI Leach	
890-1709-11	FS11	Soluble	Solid	DI Leach	
MB 880-14792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1709-2 MS	FS02	Soluble	Solid	DI Leach	
890-1709-2 MSD	FS02	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

HPLC/IC

Analysis Batch: 14832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1709-1	FS01	Soluble	Solid	300.0	14792
890-1709-2	FS02	Soluble	Solid	300.0	14792
890-1709-3	FS03	Soluble	Solid	300.0	14792
890-1709-4	FS04	Soluble	Solid	300.0	14792
890-1709-5	FS05	Soluble	Solid	300.0	14792
890-1709-6	FS06	Soluble	Solid	300.0	14792
890-1709-7	FS07	Soluble	Solid	300.0	14792
890-1709-8	FS08	Soluble	Solid	300.0	14792
890-1709-9	FS09	Soluble	Solid	300.0	14792
890-1709-10	FS10	Soluble	Solid	300.0	14792
890-1709-11	FS11	Soluble	Solid	300.0	14792
MB 880-14792/1-A	Method Blank	Soluble	Solid	300.0	14792
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	300.0	14792
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14792
890-1709-2 MS	FS02	Soluble	Solid	300.0	14792
890-1709-2 MSD	FS02	Soluble	Solid	300.0	14792

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS01

Lab Sample ID: 890-1709-1

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 15:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 11:19	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:43	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1709-2

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 15:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 12:23	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:52	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1709-3

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 15:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 13:17	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1709-4

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 16:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS04

Lab Sample ID: 890-1709-4

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 13:25	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-1709-5

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 17:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 03:12	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 13:50	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-1709-6

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 18:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 03:33	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 13:59	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-1709-7

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 18:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 03:54	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS07

Lab Sample ID: 890-1709-7

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 14:07	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-1709-8

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 18:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 14:16	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-1709-9

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 04:37	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 14:24	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-1709-10

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 04:58	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 14:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Client Sample ID: FS11

Lab Sample ID: 890-1709-11

Date Collected: 12/07/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 19:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 05:19	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 14:41	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1709-1
SDG: 31403236.0120.0129 task 05.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1709-1	FS01	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-2	FS02	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-3	FS03	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-4	FS04	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-5	FS05	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-6	FS06	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-7	FS07	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-8	FS08	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-9	FS09	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-10	FS10	Solid	12/07/21 00:00	12/14/21 08:07	0.5
890-1709-11	FS11	Solid	12/07/21 00:00	12/14/21 08:07	0.5



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

Chain of Custody

Work Order No: _____

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Page 1 of 2

Project Manager:	Talawa Morrissey	Site ID: (if different)	Kyle Little
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	720-384-7365	Email:	Alexis.Castro@wsp.com; Talawa.Morrissey@wsp.com

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

Project Name:	Nash Unit 34	Turn Around	
Project Number:	31403236.020.029	Totals/Routine	☐
P.O. Number:		Rush: 24hr	
Sampler's Name:	Alexis Castro	Due Date:	
SAMPLE RECEIPT			
Temperature (°C):	84/82	Temp Blank:	☒ Yes ☐ No
Received Intact:	Yes No	Thermometer ID:	TW M-003
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2
Sample Custody Seals:	Yes No	Total Containers:	
ANALYSIS REQUEST			
TPH (EPA 8015) ☒ BTEX (EPA 0=8021) ☒ Chloride (EPA 300.0) ☒			
Barcode: 890-1709 Chain of Custody 890-1709 Chain of Custody			
Work Order Notes: CC 1055841 001 API: 30-015-56451 INC: NAPP21184344 84			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
FS26	S	12/07/21		0.5'	1	X	X	X	COMPOSITE
FS29									
FS30									
FS31									
FS32									
FS33									
FS34									
FS35									
FS37									
FS38									

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. M. Castro	Joe Cup	12-14-21 0807			
3.					
5.					



Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575-382-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813)

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Page 2 of 2

Project Manager:	<i>Valencia Munnsen</i>	Bill to: (if different)	Adrian Baker
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moi@wsp.com

Work Order Comments	
Program: UST/PST ☐ RRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project: NM Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Nash Unit 39		Turn Around	
Project Number:		31403236020.0129		Task # 05.02	
P.O. Number:				Routine	
Sampler's Name:		Alexis Castro		Rush: 24hr	
Due Date:					
SAMPLE RECEIPT					
Temperature (°C):	Temp Blank:	Yes	No	Wet Ice:	Yes
Received Intact:	Yes	No		Thermometer ID:	
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	
Sample Custody Seals:	Yes	No	N/A	Total Containers:	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth
F339		S	12/07/21		0.5'
Number of Containers					
TPH (EPA 8015)					
BTEX (EPA 8021)					
Chloride (EPA 300.0)					
Sample Comments					
COMPOSITE					
TAT starts the day received by the lab, if received by 4:30pm					
Work Order Notes					
IN: NAPP248937484					
CC: 1055841001					
API: 30-015-36951					



Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

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Page 1 of 1

Project Manager:	Talawa Morrissey	Bill To: (if different)	Kyle Littell
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	720-384-7365	Email:	Alexis.Castro@wsp.com, Talawa.Morrissey@wsp.com

Program: UST/PST	☐ PRP	☐ Brownfields	☐ RC	☐ Superfund
State of Project:				
Reporting Level:	☐ Level II	☐ Level III	☐ ST/UST	☐ RRP
Deliverables:	☐ EDD	☐ ADAPT	☐ Other:	

Project Name:	Nash Unit 39	Turn Around	☐
Project Number:	31403236.020.0129	Rush:	24 hr
P.O. Number:		Due Date:	
Sampler's Name:	Alexis Castro		

SAMPLE RECEIPT	Temp Blank:	☒ Yes	☐ No	Well Ice:	☒ Yes	☐ No	
Temperature (°C):	3.4/3.2	Thermometer ID					
Received Inact:	☒ Yes	☐ No	Correction Factor: -0.2				
Cooler Custody Seals:	Yes	☒ No	Total Containers:				
Sample Custody Seals:	Yes	☒ No					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
F502	S	12/06/21		0.5'	1	X	X	X		cc 1055841001 AP1: 30-015-36451 INC: NMP 2118434484
F503						X	X	X		
F504						X	X	X		
F511						X	X	X		
F512						X	X	X		
ACF526										

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1631 / 245.1 / 7470 / 7471 : Hg					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time				
<i>M. L. W.</i>	<i>Joe C. P.</i>	12-14-21 0807							

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.



890-1708 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

COMPOSITE

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



Environment Testing
America

Eurofins Xenco, Carlsbad

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

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler		Lab PM Kramer Jessica		Carrier Tracking No(s)		COC No 890-544 1	
Client Contact: Shipping/Receiving		Phone		E-Mail jessica.kramer@eurofins.com		State of Origin: New Mexico		Page: Page 1 of 2	
Company: Eurofins Xenco		Due Date Requested 12/15/2021		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job # 890-1709-1		Preservation Codes	
Address 1211 W Florida Ave		City Midland		State Zip TX, 79701		Phone 432-704-5440(Tel)		Email Project Name: Nash Unit 39	
Project #: 89000004		SSOV#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefall, B=tissue, A=air)	
FS26 (890-1709-1)		12/7/21		Mountain		Solid		X	
FS29 (890-1709-2)		12/7/21		Mountain		Solid		X	
FS30 (890-1709-3)		12/7/21		Mountain		Solid		X	
FS31 (890-1709-4)		12/7/21		Mountain		Solid		X	
FS32 (890-1709-5)		12/7/21		Mountain		Solid		X	
FS33 (890-1709-6)		12/7/21		Mountain		Solid		X	
FS34 (890-1709-7)		12/7/21		Mountain		Solid		X	
FS35 (890-1709-8)		12/7/21		Mountain		Solid		X	
FS37 (890-1709-9)		12/7/21		Mountain		Solid		X	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II III, IV Other (specify)		Primary Deliverable Rank 2							
Empty Kit Relinquished by		Date/Time		Company		Time		Method of Shipment	
Relinquished by		Date/Time		Company		Time		Method of Shipment	
Relinquished by		Date/Time		Company		Time		Method of Shipment	
Custody Seals Intact:		Custody Seal No							
A Yes A No									
Cooler Temperature(s) °C and Other Remarks:									
4/1.5 0.10 IRB									

Chain of Custody Record

1089 N Canal St.
Carlsbad NIM 88220
Phone 575-988-3199 Fax 575-988-3199

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1709-1

SDG Number: 31403236.0120.0129 task 05.02

Login Number: 1709**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1709-1

SDG Number: 31403236.0120.0129 task 05.02

Login Number: 1709**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Xenco, Midland****List Creation: 12/14/21 01:29 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1708-1
Laboratory SDG: 31403236.020.0129 task 05.02
Client Project/Site: Nash Unit 39
Revision: 1

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

Attn: Tacoma Morrissey

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

Authorized for release by:
12/29/2021 10:23:09 AM

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

LINKS

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results through

TotalAccess

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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: Nash Unit 39

Laboratory Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Job ID: 890-1708-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1708-1

REVISION

The report being provided is a revision of the original report sent on 12/15/2021. The report (revision 1) is being revised due to Per client email, revising sample IDs.

Report revision history

Receipt

The samples were received on 12/14/2021 8:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS12

Lab Sample ID: 890-1708-1

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 13:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 13:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 13:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 13:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 13:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 10:00	12/14/21 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/14/21 10:00	12/14/21 13:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/14/21 10:00	12/14/21 13:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 00:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 00:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/14/21 14:49	12/15/21 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	12/14/21 14:49	12/15/21 00:45	1
o-Terphenyl	92		70 - 130	12/14/21 14:49	12/15/21 00:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		49.9	mg/Kg			12/15/21 11:45	10

Client Sample ID: FS13

Lab Sample ID: 890-1708-2

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 13:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 13:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 13:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 10:00	12/14/21 13:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 10:00	12/14/21 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/14/21 10:00	12/14/21 13:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS13

Lab Sample ID: 890-1708-2

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	12/14/21 10:00	12/14/21 13:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			12/14/21 14:49	12/15/21 01:06	1
o-Terphenyl	95		70 - 130			12/14/21 14:49	12/15/21 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		49.5	mg/Kg			12/15/21 12:10	10

Client Sample ID: FS14

Lab Sample ID: 890-1708-3

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/14/21 10:00	12/14/21 14:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/14/21 10:00	12/14/21 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/14/21 10:00	12/14/21 14:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/14/21 10:00	12/14/21 14:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS14

Lab Sample ID: 890-1708-3

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/14/21 14:49	12/15/21 01:27	1
o-Terphenyl	91		70 - 130			12/14/21 14:49	12/15/21 01:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		50.0	mg/Kg			12/15/21 12:18	10

Client Sample ID: FS15

Lab Sample ID: 890-1708-4

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 10:00	12/14/21 14:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/14/21 10:00	12/14/21 14:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/14/21 10:00	12/14/21 14:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 01:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 01:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/15/21 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			12/14/21 14:49	12/15/21 01:49	1
o-Terphenyl	96		70 - 130			12/14/21 14:49	12/15/21 01:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS15

Date Collected: 12/06/21 00:00

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Lab Sample ID: 890-1708-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		50.4	mg/Kg			12/15/21 12:27	10

Client Sample ID: FS16

Date Collected: 12/06/21 00:00

Date Received: 12/14/21 08:07

Sample Depth: 0.5

Lab Sample ID: 890-1708-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/14/21 10:00	12/14/21 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/14/21 10:00	12/14/21 14:57	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/14/21 10:00	12/14/21 14:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/15/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			12/14/21 14:49	12/15/21 02:31	1
o-Terphenyl	101		70 - 130			12/14/21 14:49	12/15/21 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		49.8	mg/Kg			12/15/21 12:35	10

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1699-A-1-A MS	Matrix Spike	103	99
890-1699-A-1-B MSD	Matrix Spike Duplicate	107	104
890-1708-1	FS12	114	87
890-1708-2	FS13	112	106
890-1708-3	FS14	114	103
890-1708-4	FS15	107	101
890-1708-5	FS16	117	105
LCS 880-14660/1-A	Lab Control Sample	99	105
LCSD 880-14660/2-A	Lab Control Sample Dup	104	108
MB 880-14660/5-A	Method Blank	117	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1700-A-1-G MS	Matrix Spike	89	85
890-1700-A-1-H MSD	Matrix Spike Duplicate	93	83
890-1708-1	FS12	104	92
890-1708-2	FS13	103	95
890-1708-3	FS14	98	91
890-1708-4	FS15	103	96
890-1708-5	FS16	106	101

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-14782/2-A	Lab Control Sample	103	91
LCSD 880-14782/3-A	Lab Control Sample Dup	120	111
MB 880-14782/1-A	Method Blank	91	89

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/14/21 07:30	12/14/21 10:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/14/21 07:30	12/14/21 10:41	1

Lab Sample ID: LCS 880-14660/1-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08602		mg/Kg		86	70 - 130
Toluene	0.100	0.07927		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07784		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1589		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07845		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-14660/2-A

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	15	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08966		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09067		mg/Kg		91	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0370		0.101	0.09777		mg/Kg					
Toluene	0.0642		0.101	0.09286		mg/Kg					

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.00482		0.101	0.09246		mg/Kg					
m-Xylene & p-Xylene	0.0144		0.201	0.1911		mg/Kg					
o-Xylene	0.00334		0.101	0.09407		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1699-A-1-A MS

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-14782/1-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14782

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/14/21 14:49	12/14/21 20:54	1
o-Terphenyl	89		70 - 130	12/14/21 14:49	12/14/21 20:54	1

Lab Sample ID: LCS 880-14782/2-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	944.6		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: LCSD 880-14782/3-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		102	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1700-A-1-G MS

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	899.8		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	917.4		mg/Kg		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: 890-1700-A-1-H MSD

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	902.0		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.2		mg/Kg		93	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	83		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14792/1-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/15/21 09:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14792/2-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-14792/3-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1709-A-2-E MS

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	931		2480	3403		mg/Kg		100	90 - 110

Lab Sample ID: 890-1709-A-2-F MSD

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	931		2480	3392		mg/Kg		99	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	5035	
890-1708-2	FS13	Total/NA	Solid	5035	
890-1708-3	FS14	Total/NA	Solid	5035	
890-1708-4	FS15	Total/NA	Solid	5035	
890-1708-5	FS16	Total/NA	Solid	5035	
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	8021B	14660
890-1708-2	FS13	Total/NA	Solid	8021B	14660
890-1708-3	FS14	Total/NA	Solid	8021B	14660
890-1708-4	FS15	Total/NA	Solid	8021B	14660
890-1708-5	FS16	Total/NA	Solid	8021B	14660
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	8021B	14660
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14660
890-1699-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14660

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	Total BTEX	
890-1708-2	FS13	Total/NA	Solid	Total BTEX	
890-1708-3	FS14	Total/NA	Solid	Total BTEX	
890-1708-4	FS15	Total/NA	Solid	Total BTEX	
890-1708-5	FS16	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	8015 NM	
890-1708-2	FS13	Total/NA	Solid	8015 NM	
890-1708-3	FS14	Total/NA	Solid	8015 NM	
890-1708-4	FS15	Total/NA	Solid	8015 NM	
890-1708-5	FS16	Total/NA	Solid	8015 NM	

Analysis Batch: 14716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	8015B NM	14782
890-1708-2	FS13	Total/NA	Solid	8015B NM	14782
890-1708-3	FS14	Total/NA	Solid	8015B NM	14782
890-1708-4	FS15	Total/NA	Solid	8015B NM	14782
890-1708-5	FS16	Total/NA	Solid	8015B NM	14782
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015B NM	14782
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14782
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14782

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

GC Semi VOA (Continued)

Analysis Batch: 14716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	14782
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14782

Prep Batch: 14782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Total/NA	Solid	8015NM Prep	
890-1708-2	FS13	Total/NA	Solid	8015NM Prep	
890-1708-3	FS14	Total/NA	Solid	8015NM Prep	
890-1708-4	FS15	Total/NA	Solid	8015NM Prep	
890-1708-5	FS16	Total/NA	Solid	8015NM Prep	
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 14792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Soluble	Solid	DI Leach	
890-1708-2	FS13	Soluble	Solid	DI Leach	
890-1708-3	FS14	Soluble	Solid	DI Leach	
890-1708-4	FS15	Soluble	Solid	DI Leach	
890-1708-5	FS16	Soluble	Solid	DI Leach	
MB 880-14792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1709-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1709-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1708-1	FS12	Soluble	Solid	300.0	14792
890-1708-2	FS13	Soluble	Solid	300.0	14792
890-1708-3	FS14	Soluble	Solid	300.0	14792
890-1708-4	FS15	Soluble	Solid	300.0	14792
890-1708-5	FS16	Soluble	Solid	300.0	14792
MB 880-14792/1-A	Method Blank	Soluble	Solid	300.0	14792
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	300.0	14792
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14792
890-1709-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	14792
890-1709-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14792

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS12

Lab Sample ID: 890-1708-1

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 13:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 00:45	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 11:45	CH	XEN MID

Client Sample ID: FS13

Lab Sample ID: 890-1708-2

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 13:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 01:06	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:10	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-1708-3

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 14:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 01:27	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:18	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-1708-4

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 14:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS15

Lab Sample ID: 890-1708-4

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 01:49	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:27	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-1708-5

Date Collected: 12/06/21 00:00

Matrix: Solid

Date Received: 12/14/21 08:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 14:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/15/21 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 12:35	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1708-1
SDG: 31403236.020.0129 task 05.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1708-1	FS12	Solid	12/06/21 00:00	12/14/21 08:07	0.5
890-1708-2	FS13	Solid	12/06/21 00:00	12/14/21 08:07	0.5
890-1708-3	FS14	Solid	12/06/21 00:00	12/14/21 08:07	0.5
890-1708-4	FS15	Solid	12/06/21 00:00	12/14/21 08:07	0.5
890-1708-5	FS16	Solid	12/06/21 00:00	12/14/21 08:07	0.5



Chain of Custody

Work Order No: _____

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

www.xenco.com

Page 1 of 1

Project Manager: <u>Talawa Murresey</u>		Company Name: <u>WSP</u>		Company Name: <u>Kyle Littell</u>	
Address: <u>3300 North A Street</u>		Address: <u>3104 E Green Street</u>		City, State ZIP: <u>Carlsbad, NM 88220</u>	
City, State ZIP: <u>Midland, TX 79705</u>		City, State ZIP: <u>Carlsbad, NM 88220</u>		City, State ZIP: <u>Carlsbad, NM 88220</u>	
Phone: <u>720-384-7365</u>		Phone: <u>720-384-7365</u>		Phone: <u>720-384-7365</u>	
Project Name: <u>Nash Unit 39</u>		Turn Around: <u>Routine</u>		Rush: <u>24 hr</u>	
Project Number: <u>31403236.020.0129</u>		Task: <u>Task</u>		Due Date: <u>12/14/21</u>	
P.O. Number: <u>31403236.020.0129</u>		Rush: <u>24 hr</u>		Due Date: <u>12/14/21</u>	
Sampler's Name: <u>Alexis Castro</u>		Due Date: <u>12/14/21</u>		Due Date: <u>12/14/21</u>	

SAMPLE RECEIPT		Temp Blank: <u>Yes</u>		Well Ice: <u>Yes</u>		No	
Temperature (°C): <u>31/3.2</u>		Thermometer ID: <u>TTW-007</u>		Correction Factor: <u>-0.2</u>		Total Containers: <u>1</u>	
Received Intact: <u>Yes</u>		Cooler Custody Seals: <u>Yes</u>		Sample Custody Seals: <u>Yes</u>		Total Containers: <u>1</u>	
Sample Identification		Matrix		Date Sampled		Time Sampled	
F502		S		12/06/21		0.5'	
F503		S		12/06/21		0.5'	
F504		S		12/06/21		0.5'	
F511		S		12/06/21		0.5'	
F512		S		12/06/21		0.5'	
F526		S		12/06/21		0.5'	



890-1708 Chain of Custody

ANALYSIS REQUEST

Work Order Notes

Program: <u>UST/PST</u>		☐ PBP		☐ Brownfields		☐ RC		☐ Superfund	
State of Project:		☐ Level I		☐ Level II		☐ Level III		☐ Level IV	
Reporting Level: <u>Level II</u>		☐ Level I		☐ Level II		☐ Level III		☐ Level IV	
Deliverables: <u>EDD</u>		☐ EDD		☐ ADAPT		☐ Other:			

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1631 / 245.1 / 7470 / 7471: Hg			
Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)	
1 <u>Ch Castro</u>		1 <u>Ch Castro</u>		12/14/21 0807		2	
3		3		3		4	
5		5		5		6	

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.

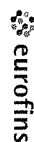
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact		Kramer Jessica			890-544 1									
Shipping/Receiving	Phone	Jessica.Kramer@eurofins.com	State of Origin:	Page										
Company	Eurofins Xenco	Jessica.Kramer@eurofins.com	New Mexico	Page 1 of 1										
Address	1211 W Florida Ave	Accreditations Required (See note):	NE LAP - Louisiana NE LAP - Texas	Job #:	890-1708-1									
City	Midland	Due Date Requested	12/15/2021	Preservation Codes										
State, Zip	TX 79701	TAT Requested (days):		A - HCL	M - Hexane									
Phone:	432-704-5440 (Tel)	PO #:		B - NaOH	N - None									
Email		WO #		C - Zn Acetate	O - AsNaO2									
Project Name:	Nash Unit 39	Project #:	89000004	D - Nitric Acid	P - Na2CO3									
Site:		SSOW#:		E - NaHSO4	Q - Na2SO3									
				F - MeOH	R - Na2S2O3									
				G - Amthor	S - H2SO4									
				H - Ascorbic Acid	T - TSP Dodecahydrate									
				I - Ice	U - Acetone									
				J - DI Water	V - MCAA									
				K - EDTA	W - pH 4-5									
				L - EDTA	Z - other (specify)									
				Other:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=grab, B=Batch, A=Air)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
FS02 (890-1708-1)	12/6/21	Mountain		Solid		X	X	X	X	X			1	
FS03 (890-1708-2)	12/6/21	Mountain		Solid		X	X	X	X	X			1	
FS04 (890-1708-3)	12/6/21	Mountain		Solid		X	X	X	X	X			1	
FS11 (890-1708-4)	12/6/21	Mountain		Solid		X	X	X	X	X			1	
FS12 (890-1708-5)	12/6/21	Mountain		Solid		X	X	X	X	X			1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by: Date Time														
Relinquished by: Date Time Company														
Relinquished by: Date Time Company														
Relinquished by: Date Time Company														
Custody Seals Intact. Custody Seal No														
Cooler Temperature(s) °C and Other Remarks.														
4/5 10 IR8														

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1708-1

SDG Number: 31403236.020.0129 task 05.02

Login Number: 1708**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1708-1

SDG Number: 31403236.020.0129 task 05.02

Login Number: 1708**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Xenco, Midland****List Creation: 12/14/21 01:29 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1754-1

Laboratory SDG: 31403236.020.0129 task 05.02

Client Project/Site: Nash Unit 39

For:

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

Attn: Tacoma Morrissey

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

Authorized for release by:
1/5/2022 8:52:46 AM

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

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

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

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Laboratory Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Job ID: 890-1754-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1754-1****Receipt**

The samples were received on 12/23/2021 1:00 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 1.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS17 (890-1754-1) and FS18 (890-1754-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15651 and analytical batch 880-15623 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-15714/21), (CCV 880-15714/34), (LCS 880-15693/1-A), (LCSD 880-15693/2-A) and (880-9683-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15693 and analytical batch 880-15714 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15722 and analytical batch 880-15825 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS17

Lab Sample ID: 890-1754-1

Date Collected: 12/21/21 13:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 06:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130	12/28/21 13:02	12/29/21 06:52	1
1,4-Difluorobenzene (Surr)	127		70 - 130	12/28/21 13:02	12/29/21 06:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 13:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 13:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/29/21 10:17	12/31/21 13:47	1
o-Terphenyl	107		70 - 130	12/29/21 10:17	12/31/21 13:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		49.8	mg/Kg			12/31/21 02:15	10

Client Sample ID: FS18

Lab Sample ID: 890-1754-2

Date Collected: 12/21/21 13:20

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/28/21 13:02	12/29/21 07:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/28/21 13:02	12/29/21 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	12/28/21 13:02	12/29/21 07:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS18

Lab Sample ID: 890-1754-2

Date Collected: 12/21/21 13:20

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	124		70 - 130	12/28/21 13:02	12/29/21 07:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 14:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 14:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			12/29/21 10:17	12/31/21 14:08	1
o-Terphenyl	99		70 - 130			12/29/21 10:17	12/31/21 14:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		49.9	mg/Kg			12/31/21 02:27	10

Client Sample ID: FS19

Lab Sample ID: 890-1754-3

Date Collected: 12/21/21 13:35

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 07:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 07:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 07:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 07:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 07:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/28/21 13:02	12/29/21 07:33	1
1,4-Difluorobenzene (Surr)	81		70 - 130	12/28/21 13:02	12/29/21 07:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS19

Lab Sample ID: 890-1754-3

Date Collected: 12/21/21 13:35

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/29/21 10:17	12/31/21 14:28	1
o-Terphenyl	118		70 - 130			12/29/21 10:17	12/31/21 14:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3040		50.1	mg/Kg			12/31/21 02:39	10

Client Sample ID: FS20

Lab Sample ID: 890-1754-4

Date Collected: 12/21/21 14:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/28/21 13:02	12/29/21 07:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			12/28/21 13:02	12/29/21 07:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/28/21 13:02	12/29/21 07:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			12/29/21 10:17	12/31/21 14:49	1
o-Terphenyl	100		70 - 130			12/29/21 10:17	12/31/21 14:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS20

Lab Sample ID: 890-1754-4

Date Collected: 12/21/21 14:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		49.8	mg/Kg			12/31/21 02:50	10

Client Sample ID: FS21

Lab Sample ID: 890-1754-5

Date Collected: 12/21/21 14:35

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/28/21 13:02	12/29/21 08:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			12/28/21 13:02	12/29/21 08:13	1
1,4-Difluorobenzene (Surr)	86		70 - 130			12/28/21 13:02	12/29/21 08:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			12/29/21 10:17	12/31/21 15:10	1
o-Terphenyl	102		70 - 130			12/29/21 10:17	12/31/21 15:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		49.5	mg/Kg			12/31/21 03:02	10

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS22

Lab Sample ID: 890-1754-6

Date Collected: 12/21/21 14:40

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 08:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 08:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 08:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/28/21 13:02	12/29/21 08:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 08:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/28/21 13:02	12/29/21 08:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/28/21 13:02	12/29/21 08:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/28/21 13:02	12/29/21 08:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.7		49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 15:31	1
Diesel Range Organics (Over C10-C28)	94.7		49.9	mg/Kg		12/29/21 10:17	12/31/21 15:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/29/21 10:17	12/31/21 15:31	1
o-Terphenyl	103		70 - 130	12/29/21 10:17	12/31/21 15:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		25.1	mg/Kg			12/31/21 03:38	5

Client Sample ID: FS23

Lab Sample ID: 890-1754-7

Date Collected: 12/21/21 14:55

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 17:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 17:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 17:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/03/22 09:02	01/03/22 17:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 17:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/03/22 09:02	01/03/22 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130	01/03/22 09:02	01/03/22 17:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS23

Lab Sample ID: 890-1754-7

Date Collected: 12/21/21 14:55

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	01/03/22 09:02	01/03/22 17:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			12/29/21 10:17	12/31/21 15:52	1
o-Terphenyl	108		70 - 130			12/29/21 10:17	12/31/21 15:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	607		24.9	mg/Kg			12/31/21 03:50	5

Client Sample ID: FS24

Lab Sample ID: 890-1754-8

Date Collected: 12/21/21 15:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 17:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 17:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 17:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/03/22 09:02	01/03/22 17:57	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 17:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/03/22 09:02	01/03/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	01/03/22 09:02	01/03/22 17:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/03/22 09:02	01/03/22 17:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS24

Lab Sample ID: 890-1754-8

Date Collected: 12/21/21 15:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 16:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			12/29/21 10:17	12/31/21 16:12	1
o-Terphenyl	102		70 - 130			12/29/21 10:17	12/31/21 16:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	872		4.97	mg/Kg			12/31/21 04:25	1

Client Sample ID: FS25

Lab Sample ID: 890-1754-9

Date Collected: 12/21/21 15:05

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130			01/03/22 09:02	01/03/22 19:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130			01/03/22 09:02	01/03/22 19:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			12/29/21 10:17	12/31/21 16:54	1
o-Terphenyl	106		70 - 130			12/29/21 10:17	12/31/21 16:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS25

Lab Sample ID: 890-1754-9

Date Collected: 12/21/21 15:05

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		24.8	mg/Kg			12/31/21 04:37	5

Client Sample ID: FS26

Lab Sample ID: 890-1754-10

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			01/03/22 09:02	01/03/22 20:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/03/22 09:02	01/03/22 20:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 17:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			12/29/21 10:17	12/31/21 17:14	1
o-Terphenyl	102		70 - 130			12/29/21 10:17	12/31/21 17:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		25.3	mg/Kg			12/31/21 04:49	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS27

Lab Sample ID: 890-1754-11

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 20:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 20:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 20:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/03/22 09:02	01/03/22 20:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 20:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/03/22 09:02	01/03/22 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	01/03/22 09:02	01/03/22 20:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130	01/03/22 09:02	01/03/22 20:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	12/29/21 10:17	12/31/21 17:35	1
o-Terphenyl	107		70 - 130	12/29/21 10:17	12/31/21 17:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		25.1	mg/Kg			12/31/21 05:01	5

Client Sample ID: FS28

Lab Sample ID: 890-1754-12

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 21:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	01/03/22 09:02	01/03/22 21:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS28

Lab Sample ID: 890-1754-12

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	01/03/22 09:02	01/03/22 21:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			12/29/21 10:17	12/31/21 17:56	1
o-Terphenyl	104		70 - 130			12/29/21 10:17	12/31/21 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		49.8	mg/Kg			12/31/21 05:13	10

Client Sample ID: FS29

Lab Sample ID: 890-1754-13

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 21:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 21:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 21:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/03/22 09:02	01/03/22 21:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 21:29	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/03/22 09:02	01/03/22 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130	01/03/22 09:02	01/03/22 21:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/03/22 09:02	01/03/22 21:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/03/22 13:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS29

Lab Sample ID: 890-1754-13

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/29/21 10:17	12/31/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/29/21 10:17	12/31/21 18:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/29/21 10:17	12/31/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			12/29/21 10:17	12/31/21 18:17	1
o-Terphenyl	106		70 - 130			12/29/21 10:17	12/31/21 18:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		24.8	mg/Kg			12/31/21 05:24	5

Client Sample ID: FS30

Lab Sample ID: 890-1754-14

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130			01/03/22 09:02	01/03/22 21:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/03/22 09:02	01/03/22 21:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			12/29/21 10:17	12/31/21 18:37	1
o-Terphenyl	108		70 - 130			12/29/21 10:17	12/31/21 18:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS30

Lab Sample ID: 890-1754-14

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		24.9	mg/Kg			12/31/21 05:36	5

Client Sample ID: FS31

Lab Sample ID: 890-1754-15

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 09:02	01/03/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130			01/03/22 09:02	01/03/22 22:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/03/22 09:02	01/03/22 22:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/29/21 10:17	12/31/21 18:58	1
o-Terphenyl	119		70 - 130			12/29/21 10:17	12/31/21 18:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		24.9	mg/Kg			01/03/22 11:10	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS32

Lab Sample ID: 890-1754-16

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 22:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 22:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 22:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/03/22 09:02	01/03/22 22:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 22:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/03/22 09:02	01/03/22 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	01/03/22 09:02	01/03/22 22:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/03/22 09:02	01/03/22 22:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 19:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	12/29/21 10:17	12/31/21 19:19	1
o-Terphenyl	114		70 - 130	12/29/21 10:17	12/31/21 19:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	618		25.0	mg/Kg			01/03/22 11:33	5

Client Sample ID: FS33

Lab Sample ID: 890-1754-17

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/03/22 09:02	01/03/22 23:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/03/22 09:02	01/03/22 23:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/03/22 09:02	01/03/22 23:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/03/22 09:02	01/03/22 23:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/03/22 09:02	01/03/22 23:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/03/22 09:02	01/03/22 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	70 - 130	01/03/22 09:02	01/03/22 23:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS33

Lab Sample ID: 890-1754-17

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 09:02	01/03/22 23:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 19:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 19:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			12/29/21 10:17	12/31/21 19:40	1
o-Terphenyl	114		70 - 130			12/29/21 10:17	12/31/21 19:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		24.9	mg/Kg			01/03/22 11:41	5

Client Sample ID: FS34

Lab Sample ID: 890-1754-18

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 23:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 23:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 23:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/03/22 09:02	01/03/22 23:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/03/22 09:02	01/03/22 23:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/03/22 09:02	01/03/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	01/03/22 09:02	01/03/22 23:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/03/22 09:02	01/03/22 23:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/22 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS34

Lab Sample ID: 890-1754-18

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 20:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 20:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/29/21 10:17	12/31/21 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			12/29/21 10:17	12/31/21 20:00	1
o-Terphenyl	103		70 - 130			12/29/21 10:17	12/31/21 20:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		24.8	mg/Kg			01/03/22 11:49	5

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9683-A-1-A MS	Matrix Spike	132 S1+	73
880-9683-A-1-B MSD	Matrix Spike Duplicate	108	95
880-9746-A-2-F MS	Matrix Spike	144 S1+	104
880-9746-A-2-G MSD	Matrix Spike Duplicate	145 S1+	90
890-1754-1	FS17	169 S1+	127
890-1754-2	FS18	144 S1+	124
890-1754-3	FS19	114	81
890-1754-4	FS20	108	102
890-1754-5	FS21	111	86
890-1754-6	FS22	112	107
890-1754-7	FS23	179 S1+	108
890-1754-8	FS24	167 S1+	102
890-1754-9	FS25	175 S1+	91
890-1754-10	FS26	159 S1+	101
890-1754-11	FS27	151 S1+	84
890-1754-12	FS28	166 S1+	91
890-1754-13	FS29	174 S1+	96
890-1754-14	FS30	195 S1+	104
890-1754-15	FS31	171 S1+	97
890-1754-16	FS32	164 S1+	106
890-1754-17	FS33	184 S1+	104
890-1754-18	FS34	159 S1+	91
890-1757-A-1-B MS	Matrix Spike	116	81
890-1757-A-1-C MSD	Matrix Spike Duplicate	108	98
LCS 880-15651/1-A	Lab Control Sample	101	107
LCS 880-15651/1-A	Lab Control Sample	110	103
LCS 880-15693/1-A	Lab Control Sample	99	96
LCS 880-15709/1-A	Lab Control Sample	137 S1+	100
LCSD 880-15651/2-A	Lab Control Sample Dup	103	95
LCSD 880-15651/2-A	Lab Control Sample Dup	109	94
LCSD 880-15693/2-A	Lab Control Sample Dup	146 S1+	109
LCSD 880-15709/2-A	Lab Control Sample Dup	137 S1+	91
MB 880-15624/5-A	Method Blank	116	113
MB 880-15651/5-A	Method Blank	108	108
MB 880-15651/5-A	Method Blank	104	102
MB 880-15709/5-A	Method Blank	93	88
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1750-A-81-F MS	Matrix Spike	73	74
890-1750-A-81-G MSD	Matrix Spike Duplicate	73	74
890-1754-1	FS17	92	107

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1754-1

Project/Site: Nash Unit 39

SDG: 31403236.020.0129 task 05.02

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1754-2	FS18	86	99
890-1754-3	FS19	99	118
890-1754-4	FS20	85	100
890-1754-5	FS21	88	102
890-1754-6	FS22	89	103
890-1754-7	FS23	93	108
890-1754-8	FS24	88	102
890-1754-9	FS25	91	106
890-1754-10	FS26	86	102
890-1754-11	FS27	94	107
890-1754-12	FS28	90	104
890-1754-13	FS29	92	106
890-1754-14	FS30	93	108
890-1754-15	FS31	102	119
890-1754-16	FS32	99	114
890-1754-17	FS33	96	114
890-1754-18	FS34	90	103
LCS 880-15722/2-A	Lab Control Sample	107	101
LCSD 880-15722/3-A	Lab Control Sample Dup	111	106
MB 880-15722/1-A	Method Blank	102	127

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15624/5-A

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15624

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/21 10:04	12/28/21 13:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/28/21 10:04	12/28/21 13:45	1
1,4-Difluorobenzene (Surr)	113		70 - 130	12/28/21 10:04	12/28/21 13:45	1

Lab Sample ID: MB 880-15651/5-A

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15651

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 00:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 00:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1

Lab Sample ID: MB 880-15651/5-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15651

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/28/21 13:02	12/29/21 12:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/28/21 13:02	12/29/21 12:43	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: LCS 880-15651/1-A

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08352		mg/Kg		84	70 - 130
Toluene	0.100	0.07913		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07795		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1548		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07982		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCS 880-15651/1-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.05617	*-	mg/Kg		56	70 - 130
Toluene	0.100	0.05333	*-	mg/Kg		53	70 - 130
Ethylbenzene	0.100	0.05221	*-	mg/Kg		52	70 - 130
m-Xylene & p-Xylene	0.200	0.1064	*-	mg/Kg		53	70 - 130
o-Xylene	0.100	0.05333	*-	mg/Kg		53	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-15651/2-A

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07468		mg/Kg		75	70 - 130	11	35
Toluene	0.100	0.07364		mg/Kg		74	70 - 130	7	35
Ethylbenzene	0.100	0.07284		mg/Kg		73	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1461		mg/Kg		73	70 - 130	6	35
o-Xylene	0.100	0.07519		mg/Kg		75	70 - 130	6	35

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

Lab Sample ID: LCSD 880-15651/2-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.05358	*-	mg/Kg		54	70 - 130	5	35
Toluene	0.100	0.05006	*-	mg/Kg		50	70 - 130	6	35
Ethylbenzene	0.100	0.04959	*-	mg/Kg		50	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: LCSD 880-15651/2-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1057	*-	mg/Kg		53	70 - 130	1	35
o-Xylene	0.100	0.05187	*-	mg/Kg		52	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1757-A-1-B MS

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.05503	F1	mg/Kg		55	70 - 130		
Toluene	<0.00200	U F1	0.0998	0.05714	F1	mg/Kg		57	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0998	0.05026	F1	mg/Kg		50	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1116	F1	mg/Kg		56	70 - 130		
o-Xylene	<0.00200	U F1	0.0998	0.05151	F1	mg/Kg		52	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 890-1757-A-1-C MSD

Matrix: Solid

Analysis Batch: 15623

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.06147	F1	mg/Kg		61	70 - 130	11	35
Toluene	<0.00200	U F1	0.101	0.05994	F1	mg/Kg		59	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.101	0.06056	F1	mg/Kg		60	70 - 130	19	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1227	F1	mg/Kg		61	70 - 130	9	35
o-Xylene	<0.00200	U F1	0.101	0.06165	F1	mg/Kg		61	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCS 880-15693/1-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15693

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: LCSD 880-15693/2-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15693

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07766		mg/Kg		78	70 - 130	NaN	35
Toluene	0.100	0.07298		mg/Kg		73	70 - 130	NaN	35
Ethylbenzene	0.100	0.09873		mg/Kg		99	70 - 130	NaN	35
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130	NaN	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	NaN	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-9683-A-1-A MS

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15693

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0996	0.03709	F1	mg/Kg		37	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05151	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.05531	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1246	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06210	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 880-9683-A-1-B MSD

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15693

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0998	0.06682	F2 F1	mg/Kg		67	70 - 130	57	35
Toluene	<0.00199	U F1	0.0998	0.06868	F1	mg/Kg		69	70 - 130	29	35
Ethylbenzene	<0.00199	U F1	0.0998	0.06890	F1	mg/Kg		69	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1420		mg/Kg		71	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.0998	0.07328		mg/Kg		73	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-15709/5-A

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15709

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: MB 880-15709/5-A

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15709

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 09:02	01/03/22 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/03/22 09:02	01/03/22 13:34	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/03/22 09:02	01/03/22 13:34	1

Lab Sample ID: LCS 880-15709/1-A

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07683		mg/Kg		77	70 - 130
Toluene	0.100	0.08339		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.07121		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	0.200	0.1433		mg/Kg		72	70 - 130
o-Xylene	0.100	0.07074		mg/Kg		71	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-15709/2-A

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15709

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07649		mg/Kg		76	70 - 130	0	35
Toluene	0.100	0.07353		mg/Kg		74	70 - 130	13	35
Ethylbenzene	0.100	0.07195		mg/Kg		72	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1548		mg/Kg		77	70 - 130	8	35
o-Xylene	0.100	0.07277		mg/Kg		73	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-9746-A-2-F MS

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.07290		mg/Kg		73	70 - 130
Toluene	<0.00200	U	0.0998	0.07350		mg/Kg		74	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07305		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1467		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07196		mg/Kg		72	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-9746-A-2-G MSD

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07269		mg/Kg		73	70 - 130	0	35
Toluene	<0.00200	U	0.0994	0.06970		mg/Kg		70	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0994	0.07455		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1489		mg/Kg		75	70 - 130	1	35
o-Xylene	<0.00200	U	0.0994	0.07555		mg/Kg		76	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-15722/1-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:17	12/31/21 11:25	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	102		70 - 130	12/29/21 10:17	12/31/21 11:25	1		
o-Terphenyl	127		70 - 130	12/29/21 10:17	12/31/21 11:25	1		

Lab Sample ID: LCS 880-15722/2-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	947.1		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1174		mg/Kg		117	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	101		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Lab Sample ID: LCSD 880-15722/3-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1218		mg/Kg		122	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 890-1750-A-81-F MS

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	435.4	F1	mg/Kg		44	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	401.0	F1	mg/Kg		40	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	73		70 - 130								
o-Terphenyl	74		70 - 130								

Lab Sample ID: 890-1750-A-81-G MSD

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	450.5	F1	mg/Kg		45	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	407.9	F1	mg/Kg		41	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	73		70 - 130								
o-Terphenyl	74		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15694/1-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/30/21 23:40	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-15694/2-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-15694/3-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1754-5 MS

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: FS21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1240		2480	3826		mg/Kg		105	90 - 110

Lab Sample ID: 890-1754-5 MSD

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: FS21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1240		2480	3895		mg/Kg		107	90 - 110	2	20

Lab Sample ID: MB 880-15703/1-A

Matrix: Solid

Analysis Batch: 15914

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/03/22 08:25	1

Lab Sample ID: LCS 880-15703/2-A

Matrix: Solid

Analysis Batch: 15914

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-15703/3-A

Matrix: Solid

Analysis Batch: 15914

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.2		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-9699-A-9-C MS

Matrix: Solid

Analysis Batch: 15914

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2400		1250	3711		mg/Kg		105	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-9699-A-9-D MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 15914												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	2400		1250	3705		mg/Kg		104	90 - 110	0	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

GC VOA

Analysis Batch: 15623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	8021B	15651
890-1754-2	FS18	Total/NA	Solid	8021B	15651
890-1754-3	FS19	Total/NA	Solid	8021B	15651
890-1754-4	FS20	Total/NA	Solid	8021B	15651
890-1754-5	FS21	Total/NA	Solid	8021B	15651
890-1754-6	FS22	Total/NA	Solid	8021B	15651
MB 880-15624/5-A	Method Blank	Total/NA	Solid	8021B	15624
MB 880-15651/5-A	Method Blank	Total/NA	Solid	8021B	15651
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	8021B	15651
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15651
890-1757-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15651
890-1757-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15651

Prep Batch: 15624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15624/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 15651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	5035	
890-1754-2	FS18	Total/NA	Solid	5035	
890-1754-3	FS19	Total/NA	Solid	5035	
890-1754-4	FS20	Total/NA	Solid	5035	
890-1754-5	FS21	Total/NA	Solid	5035	
890-1754-6	FS22	Total/NA	Solid	5035	
MB 880-15651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1757-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1757-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-15693/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15693/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9683-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9683-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-7	FS23	Total/NA	Solid	5035	
890-1754-8	FS24	Total/NA	Solid	5035	
890-1754-9	FS25	Total/NA	Solid	5035	
890-1754-10	FS26	Total/NA	Solid	5035	
890-1754-11	FS27	Total/NA	Solid	5035	
890-1754-12	FS28	Total/NA	Solid	5035	
890-1754-13	FS29	Total/NA	Solid	5035	
890-1754-14	FS30	Total/NA	Solid	5035	
890-1754-15	FS31	Total/NA	Solid	5035	
890-1754-16	FS32	Total/NA	Solid	5035	
890-1754-17	FS33	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

GC VOA (Continued)

Prep Batch: 15709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-18	FS34	Total/NA	Solid	5035	
MB 880-15709/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15709/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15709/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15651/5-A	Method Blank	Total/NA	Solid	8021B	15651
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	8021B	15651
LCS 880-15693/1-A	Lab Control Sample	Total/NA	Solid	8021B	15693
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15651
LCSD 880-15693/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15693
880-9683-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	15693
880-9683-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15693

Analysis Batch: 15877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-7	FS23	Total/NA	Solid	8021B	15709
890-1754-8	FS24	Total/NA	Solid	8021B	15709
890-1754-9	FS25	Total/NA	Solid	8021B	15709
890-1754-10	FS26	Total/NA	Solid	8021B	15709
890-1754-11	FS27	Total/NA	Solid	8021B	15709
890-1754-12	FS28	Total/NA	Solid	8021B	15709
890-1754-13	FS29	Total/NA	Solid	8021B	15709
890-1754-14	FS30	Total/NA	Solid	8021B	15709
890-1754-15	FS31	Total/NA	Solid	8021B	15709
890-1754-16	FS32	Total/NA	Solid	8021B	15709
890-1754-17	FS33	Total/NA	Solid	8021B	15709
890-1754-18	FS34	Total/NA	Solid	8021B	15709
MB 880-15709/5-A	Method Blank	Total/NA	Solid	8021B	15709
LCS 880-15709/1-A	Lab Control Sample	Total/NA	Solid	8021B	15709
LCSD 880-15709/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15709
880-9746-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	15709
880-9746-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15709

Analysis Batch: 15908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	Total BTEX	
890-1754-2	FS18	Total/NA	Solid	Total BTEX	
890-1754-3	FS19	Total/NA	Solid	Total BTEX	
890-1754-4	FS20	Total/NA	Solid	Total BTEX	
890-1754-5	FS21	Total/NA	Solid	Total BTEX	
890-1754-6	FS22	Total/NA	Solid	Total BTEX	
890-1754-7	FS23	Total/NA	Solid	Total BTEX	
890-1754-8	FS24	Total/NA	Solid	Total BTEX	
890-1754-9	FS25	Total/NA	Solid	Total BTEX	
890-1754-10	FS26	Total/NA	Solid	Total BTEX	
890-1754-11	FS27	Total/NA	Solid	Total BTEX	
890-1754-12	FS28	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
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GC VOA (Continued)

Analysis Batch: 15908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-13	FS29	Total/NA	Solid	Total BTEX	
890-1754-14	FS30	Total/NA	Solid	Total BTEX	
890-1754-15	FS31	Total/NA	Solid	Total BTEX	
890-1754-16	FS32	Total/NA	Solid	Total BTEX	
890-1754-17	FS33	Total/NA	Solid	Total BTEX	
890-1754-18	FS34	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	8015NM Prep	
890-1754-2	FS18	Total/NA	Solid	8015NM Prep	
890-1754-3	FS19	Total/NA	Solid	8015NM Prep	
890-1754-4	FS20	Total/NA	Solid	8015NM Prep	
890-1754-5	FS21	Total/NA	Solid	8015NM Prep	
890-1754-6	FS22	Total/NA	Solid	8015NM Prep	
890-1754-7	FS23	Total/NA	Solid	8015NM Prep	
890-1754-8	FS24	Total/NA	Solid	8015NM Prep	
890-1754-9	FS25	Total/NA	Solid	8015NM Prep	
890-1754-10	FS26	Total/NA	Solid	8015NM Prep	
890-1754-11	FS27	Total/NA	Solid	8015NM Prep	
890-1754-12	FS28	Total/NA	Solid	8015NM Prep	
890-1754-13	FS29	Total/NA	Solid	8015NM Prep	
890-1754-14	FS30	Total/NA	Solid	8015NM Prep	
890-1754-15	FS31	Total/NA	Solid	8015NM Prep	
890-1754-16	FS32	Total/NA	Solid	8015NM Prep	
890-1754-17	FS33	Total/NA	Solid	8015NM Prep	
890-1754-18	FS34	Total/NA	Solid	8015NM Prep	
MB 880-15722/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15722/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1750-A-81-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1750-A-81-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	8015B NM	15722
890-1754-2	FS18	Total/NA	Solid	8015B NM	15722
890-1754-3	FS19	Total/NA	Solid	8015B NM	15722
890-1754-4	FS20	Total/NA	Solid	8015B NM	15722
890-1754-5	FS21	Total/NA	Solid	8015B NM	15722
890-1754-6	FS22	Total/NA	Solid	8015B NM	15722
890-1754-7	FS23	Total/NA	Solid	8015B NM	15722
890-1754-8	FS24	Total/NA	Solid	8015B NM	15722
890-1754-9	FS25	Total/NA	Solid	8015B NM	15722
890-1754-10	FS26	Total/NA	Solid	8015B NM	15722
890-1754-11	FS27	Total/NA	Solid	8015B NM	15722
890-1754-12	FS28	Total/NA	Solid	8015B NM	15722
890-1754-13	FS29	Total/NA	Solid	8015B NM	15722
890-1754-14	FS30	Total/NA	Solid	8015B NM	15722

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

GC Semi VOA (Continued)

Analysis Batch: 15825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-15	FS31	Total/NA	Solid	8015B NM	15722
890-1754-16	FS32	Total/NA	Solid	8015B NM	15722
890-1754-17	FS33	Total/NA	Solid	8015B NM	15722
890-1754-18	FS34	Total/NA	Solid	8015B NM	15722
MB 880-15722/1-A	Method Blank	Total/NA	Solid	8015B NM	15722
LCS 880-15722/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15722
LCSD 880-15722/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15722
890-1750-A-81-F MS	Matrix Spike	Total/NA	Solid	8015B NM	15722
890-1750-A-81-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15722

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Total/NA	Solid	8015 NM	
890-1754-2	FS18	Total/NA	Solid	8015 NM	
890-1754-3	FS19	Total/NA	Solid	8015 NM	
890-1754-4	FS20	Total/NA	Solid	8015 NM	
890-1754-5	FS21	Total/NA	Solid	8015 NM	
890-1754-6	FS22	Total/NA	Solid	8015 NM	
890-1754-7	FS23	Total/NA	Solid	8015 NM	
890-1754-8	FS24	Total/NA	Solid	8015 NM	
890-1754-9	FS25	Total/NA	Solid	8015 NM	
890-1754-10	FS26	Total/NA	Solid	8015 NM	
890-1754-11	FS27	Total/NA	Solid	8015 NM	
890-1754-12	FS28	Total/NA	Solid	8015 NM	
890-1754-13	FS29	Total/NA	Solid	8015 NM	
890-1754-14	FS30	Total/NA	Solid	8015 NM	
890-1754-15	FS31	Total/NA	Solid	8015 NM	
890-1754-16	FS32	Total/NA	Solid	8015 NM	
890-1754-17	FS33	Total/NA	Solid	8015 NM	
890-1754-18	FS34	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Soluble	Solid	DI Leach	
890-1754-2	FS18	Soluble	Solid	DI Leach	
890-1754-3	FS19	Soluble	Solid	DI Leach	
890-1754-4	FS20	Soluble	Solid	DI Leach	
890-1754-5	FS21	Soluble	Solid	DI Leach	
890-1754-6	FS22	Soluble	Solid	DI Leach	
890-1754-7	FS23	Soluble	Solid	DI Leach	
890-1754-8	FS24	Soluble	Solid	DI Leach	
890-1754-9	FS25	Soluble	Solid	DI Leach	
890-1754-10	FS26	Soluble	Solid	DI Leach	
890-1754-11	FS27	Soluble	Solid	DI Leach	
890-1754-12	FS28	Soluble	Solid	DI Leach	
890-1754-13	FS29	Soluble	Solid	DI Leach	
890-1754-14	FS30	Soluble	Solid	DI Leach	
MB 880-15694/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15694/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

HPLC/IC (Continued)

Leach Batch: 15694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-15694/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1754-5 MS	FS21	Soluble	Solid	DI Leach	
890-1754-5 MSD	FS21	Soluble	Solid	DI Leach	

Leach Batch: 15703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-15	FS31	Soluble	Solid	DI Leach	
890-1754-16	FS32	Soluble	Solid	DI Leach	
890-1754-17	FS33	Soluble	Solid	DI Leach	
890-1754-18	FS34	Soluble	Solid	DI Leach	
MB 880-15703/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15703/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15703/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9699-A-9-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9699-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-1	FS17	Soluble	Solid	300.0	15694
890-1754-2	FS18	Soluble	Solid	300.0	15694
890-1754-3	FS19	Soluble	Solid	300.0	15694
890-1754-4	FS20	Soluble	Solid	300.0	15694
890-1754-5	FS21	Soluble	Solid	300.0	15694
890-1754-6	FS22	Soluble	Solid	300.0	15694
890-1754-7	FS23	Soluble	Solid	300.0	15694
890-1754-8	FS24	Soluble	Solid	300.0	15694
890-1754-9	FS25	Soluble	Solid	300.0	15694
890-1754-10	FS26	Soluble	Solid	300.0	15694
890-1754-11	FS27	Soluble	Solid	300.0	15694
890-1754-12	FS28	Soluble	Solid	300.0	15694
890-1754-13	FS29	Soluble	Solid	300.0	15694
890-1754-14	FS30	Soluble	Solid	300.0	15694
MB 880-15694/1-A	Method Blank	Soluble	Solid	300.0	15694
LCS 880-15694/2-A	Lab Control Sample	Soluble	Solid	300.0	15694
LCSD 880-15694/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15694
890-1754-5 MS	FS21	Soluble	Solid	300.0	15694
890-1754-5 MSD	FS21	Soluble	Solid	300.0	15694

Analysis Batch: 15914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1754-15	FS31	Soluble	Solid	300.0	15703
890-1754-16	FS32	Soluble	Solid	300.0	15703
890-1754-17	FS33	Soluble	Solid	300.0	15703
890-1754-18	FS34	Soluble	Solid	300.0	15703
MB 880-15703/1-A	Method Blank	Soluble	Solid	300.0	15703
LCS 880-15703/2-A	Lab Control Sample	Soluble	Solid	300.0	15703
LCSD 880-15703/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15703
880-9699-A-9-C MS	Matrix Spike	Soluble	Solid	300.0	15703
880-9699-A-9-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15703

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS17

Lab Sample ID: 890-1754-1

Date Collected: 12/21/21 13:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 06:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 13:47	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 02:15	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-1754-2

Date Collected: 12/21/21 13:20

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 07:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 02:27	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-1754-3

Date Collected: 12/21/21 13:35

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 07:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 02:39	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-1754-4

Date Collected: 12/21/21 14:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 07:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS20

Lab Sample ID: 890-1754-4

Date Collected: 12/21/21 14:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 14:49	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 02:50	CH	XEN MID

Client Sample ID: FS21

Lab Sample ID: 890-1754-5

Date Collected: 12/21/21 14:35

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 08:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 15:10	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 03:02	CH	XEN MID

Client Sample ID: FS22

Lab Sample ID: 890-1754-6

Date Collected: 12/21/21 14:40

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 08:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 03:38	CH	XEN MID

Client Sample ID: FS23

Lab Sample ID: 890-1754-7

Date Collected: 12/21/21 14:55

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 17:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 15:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS23

Lab Sample ID: 890-1754-7

Date Collected: 12/21/21 14:55

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 03:50	CH	XEN MID

Client Sample ID: FS24

Lab Sample ID: 890-1754-8

Date Collected: 12/21/21 15:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 17:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 16:12	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		1	15818	12/31/21 04:25	CH	XEN MID

Client Sample ID: FS25

Lab Sample ID: 890-1754-9

Date Collected: 12/21/21 15:05

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 04:37	CH	XEN MID

Client Sample ID: FS26

Lab Sample ID: 890-1754-10

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 20:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 04:49	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS27

Lab Sample ID: 890-1754-11

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 20:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 05:01	CH	XEN MID

Client Sample ID: FS28

Lab Sample ID: 890-1754-12

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 21:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 17:56	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		10	15818	12/31/21 05:13	CH	XEN MID

Client Sample ID: FS29

Lab Sample ID: 890-1754-13

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 21:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 05:24	CH	XEN MID

Client Sample ID: FS30

Lab Sample ID: 890-1754-14

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 21:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS30

Lab Sample ID: 890-1754-14

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 18:37	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		5	15818	12/31/21 05:36	CH	XEN MID

Client Sample ID: FS31

Lab Sample ID: 890-1754-15

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 22:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 18:58	AJ	XEN MID
Soluble	Analysis	300.0		5	15914	01/03/22 11:10	CH	XEN MID
Soluble	Leach	DI Leach			15703	12/29/22 08:41	CH	XEN MID

Client Sample ID: FS32

Lab Sample ID: 890-1754-16

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 22:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 19:19	AJ	XEN MID
Soluble	Leach	DI Leach			15703	12/29/21 08:41	CH	XEN MID
Soluble	Analysis	300.0		5	15914	01/03/22 11:33	CH	XEN MID

Client Sample ID: FS33

Lab Sample ID: 890-1754-17

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 23:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 19:40	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Client Sample ID: FS33

Lab Sample ID: 890-1754-17

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			15703	12/29/21 08:41	CH	XEN MID
Soluble	Analysis	300.0		5	15914	01/03/22 11:41	CH	XEN MID

Client Sample ID: FS34

Lab Sample ID: 890-1754-18

Date Collected: 12/21/21 00:00

Matrix: Solid

Date Received: 12/23/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15709	01/03/22 09:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/03/22 23:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 13:25	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15722	12/29/21 10:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	12/31/21 20:00	AJ	XEN MID
Soluble	Leach	DI Leach			15703	12/29/21 08:41	CH	XEN MID
Soluble	Analysis	300.0		5	15914	01/03/22 11:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 39

Job ID: 890-1754-1
SDG: 31403236.020.0129 task 05.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1754-1	FS17	Solid	12/21/21 13:00	12/23/21 13:00	0.5
890-1754-2	FS18	Solid	12/21/21 13:20	12/23/21 13:00	0.5
890-1754-3	FS19	Solid	12/21/21 13:35	12/23/21 13:00	0.5
890-1754-4	FS20	Solid	12/21/21 14:00	12/23/21 13:00	0.5
890-1754-5	FS21	Solid	12/21/21 14:35	12/23/21 13:00	0.5
890-1754-6	FS22	Solid	12/21/21 14:40	12/23/21 13:00	0.5
890-1754-7	FS23	Solid	12/21/21 14:55	12/23/21 13:00	0.5
890-1754-8	FS24	Solid	12/21/21 15:00	12/23/21 13:00	0.5
890-1754-9	FS25	Solid	12/21/21 15:05	12/23/21 13:00	0.5
890-1754-10	FS26	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-11	FS27	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-12	FS28	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-13	FS29	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-14	FS30	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-15	FS31	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-16	FS32	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-17	FS33	Solid	12/21/21 00:00	12/23/21 13:00	0.5
890-1754-18	FS34	Solid	12/21/21 00:00	12/23/21 13:00	0.5



Chain of Custody

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

Work Order No: _____

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Page 1 of 2

Project Manager: Tacoma Morrissey Bill to: (if different) Kyle Litell

Company Name: WSP Company Name: XTO Energy

Address: 3300 North A Street Address: 3104 E Green Street

City, State ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220

Phone: 432-236-3549 Email: Alexis.Custody@wsp.com

Project Name: Nash Unit 39 Turn Around: ✓

Project Number: 740326.020 0124 Task 05.01 Routine: ✓

P.O. Number: Rush:

Sampler's Name: Alexis Custody Due Date: _____

SAMPLE RECEIPT Temp Blank: (Yes) No Wet Ice: (Yes) No

Temperature (°C): 16/14 Thermometer ID: 7-14-07

Received Intact: (Yes) No Correction Factor: -0.2

Cooler Custody Seals: Yes No N/A Total Containers: _____

Sample Custody Seals: Yes No

Sample Identification Matrix Date Sampled Time Sampled Depth

FS17 S 11/12/21 1500 0.5'

FS18 1520

FS19 1335

FS20 1400

FS21 1415

FS22 1430

FS23 1435

FS24 1455

FS25 1500

FS26 1505

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471: Hg

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 _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time _____

ANALYSIS REQUEST



890-1754 Chain of Custody

Work Order Comments

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

Work Order Notes

1055841001
 30-015-36951
 INC: N40211 843 4484

Sample Comments

TAT starts the day received by the lab, if received by 4:30pm

Composite

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1754-1

SDG Number: 31403236.020.0129 task 05.02

Login Number: 1754

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1754-1

SDG Number: 31403236.020.0129 task 05.02

Login Number: 1754

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/28/21 10:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2032-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: Nash 39

For:

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

Attn: Tacoma Morrissey

A handwritten signature in black ink, appearing to read "J. Kramer".

Authorized for release by:
3/8/2022 12:28:25 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Nash 39

Laboratory Job ID: 890-2032-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Job ID: 890-2032-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-2032-1
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Receipt

The sample was received on 3/1/2022 9:19 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Client Sample ID: FS08A

Lab Sample ID: 890-2032-1

Date Collected: 02/28/22 10:25

Matrix: Solid

Date Received: 03/01/22 09:19

Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 05:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 05:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 05:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/03/22 05:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 05:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/03/22 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/02/22 16:00	03/03/22 05:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/02/22 16:00	03/03/22 05:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/03/22 09:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/03/22 12:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/02/22 08:11	03/03/22 07:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/02/22 08:11	03/03/22 07:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/02/22 08:11	03/03/22 07:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/02/22 08:11	03/03/22 07:42	1
o-Terphenyl	103		70 - 130	03/02/22 08:11	03/03/22 07:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	724		4.97	mg/Kg			03/08/22 12:17	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11892-A-1-B MS	Matrix Spike	108	95
880-11892-A-1-C MSD	Matrix Spike Duplicate	115	96
890-2032-1	FS08A	115	101
LCS 880-20604/1-A	Lab Control Sample	99	102
LCSD 880-20604/2-A	Lab Control Sample Dup	99	100
MB 880-20523/5-A	Method Blank	104	96
MB 880-20604/5-A	Method Blank	97	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2030-A-1-F MS	Matrix Spike	94	100
890-2030-A-1-G MSD	Matrix Spike Duplicate	99	95
890-2032-1	FS08A	100	103
LCS 880-20658/2-A	Lab Control Sample	107	106
LCSD 880-20658/3-A	Lab Control Sample Dup	106	105
MB 880-20658/1-A	Method Blank	112	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20523/5-A

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20523

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 08:00	03/02/22 10:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 08:00	03/02/22 10:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 08:00	03/02/22 10:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/22 08:00	03/02/22 10:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 08:00	03/02/22 10:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/22 08:00	03/02/22 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/02/22 08:00	03/02/22 10:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/02/22 08:00	03/02/22 10:52	1

Lab Sample ID: MB 880-20604/5-A

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20604

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/02/22 21:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/02/22 21:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/02/22 21:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/02/22 21:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/02/22 21:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/02/22 21:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/02/22 16:00	03/02/22 21:46	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/02/22 16:00	03/02/22 21:46	1

Lab Sample ID: LCS 880-20604/1-A

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1027		mg/Kg		103	70 - 130
Toluene	0.100	0.09969		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09759		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09944		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-20604/2-A

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09660		mg/Kg		97	70 - 130	6	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-20604/2-A

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09466		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.09326		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130	4	35
o-Xylene	0.100	0.09495		mg/Kg		95	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-11892-A-1-B MS

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.03877	F1	mg/Kg		37	70 - 130
Toluene	0.0322	F1	0.100	0.05454	F1	mg/Kg		22	70 - 130
Ethylbenzene	0.0357	F1	0.100	0.05385	F1	mg/Kg		18	70 - 130
m-Xylene & p-Xylene	0.118	F1	0.201	0.1452	F1	mg/Kg		14	70 - 130
o-Xylene	0.0567	F1	0.100	0.06888	F1	mg/Kg		12	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-11892-A-1-C MSD

Matrix: Solid

Analysis Batch: 20656

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.04974	F1	mg/Kg		48	70 - 130	25	35
Toluene	0.0322	F1	0.100	0.06440	F1	mg/Kg		32	70 - 130	17	35
Ethylbenzene	0.0357	F1	0.100	0.06345	F1	mg/Kg		28	70 - 130	16	35
m-Xylene & p-Xylene	0.118	F1	0.200	0.1611	F1	mg/Kg		22	70 - 130	10	35
o-Xylene	0.0567	F1	0.100	0.07563	F1	mg/Kg		19	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-20658/1-A

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/02/22 08:11	03/03/22 01:28	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

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

Lab Sample ID: MB 880-20658/1-A

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/02/22 08:11	03/03/22 01:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/02/22 08:11	03/03/22 01:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			03/02/22 08:11	03/03/22 01:28	1
o-Terphenyl	117		70 - 130			03/02/22 08:11	03/03/22 01:28	1

Lab Sample ID: LCS 880-20658/2-A

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	930.2		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	852.2		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	107		70 - 130				
o-Terphenyl	106		70 - 130				

Lab Sample ID: LCSD 880-20658/3-A

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	971.8		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	874.2		mg/Kg		87	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 890-2030-A-1-F MS

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1077		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	943.7		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	100		70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

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

Lab Sample ID: 890-2030-A-1-G MSD

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1086		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	910.9		mg/Kg		91	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20806/1-A

Matrix: Solid

Analysis Batch: 20936

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/07/22 19:36	1

Lab Sample ID: LCS 880-20806/2-A

Matrix: Solid

Analysis Batch: 20936

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	201.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-20806/3-A

Matrix: Solid

Analysis Batch: 20936

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	200	203.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-11928-A-8-D MS

Matrix: Solid

Analysis Batch: 20936

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	104		250	353.8		mg/Kg		100	90 - 110

Lab Sample ID: 880-11928-A-8-E MSD

Matrix: Solid

Analysis Batch: 20936

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	104		250	364.0		mg/Kg		104	90 - 110	3	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

GC VOA

Prep Batch: 20523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20523/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	5035	
MB 880-20604/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20604/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20604/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11892-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-11892-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	8021B	20604
MB 880-20523/5-A	Method Blank	Total/NA	Solid	8021B	20523
MB 880-20604/5-A	Method Blank	Total/NA	Solid	8021B	20604
LCS 880-20604/1-A	Lab Control Sample	Total/NA	Solid	8021B	20604
LCSD 880-20604/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20604
880-11892-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	20604
880-11892-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20604

Analysis Batch: 20784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 20655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	8015B NM	20658
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015B NM	20658
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20658
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20658
890-2030-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	20658
890-2030-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20658

Prep Batch: 20658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	8015NM Prep	
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2030-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2030-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

HPLC/IC

Leach Batch: 20806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Soluble	Solid	DI Leach	
MB 880-20806/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20806/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20806/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11928-A-8-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-11928-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 20936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2032-1	FS08A	Soluble	Solid	300.0	20806
MB 880-20806/1-A	Method Blank	Soluble	Solid	300.0	20806
LCS 880-20806/2-A	Lab Control Sample	Soluble	Solid	300.0	20806
LCSD 880-20806/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20806
880-11928-A-8-D MS	Matrix Spike	Soluble	Solid	300.0	20806
880-11928-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20806

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Client Sample ID: FS08A
Date Collected: 02/28/22 10:25
Date Received: 03/01/22 09:19

Lab Sample ID: 890-2032-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20604	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20656	03/03/22 05:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20784	03/03/22 09:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20813	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20655	03/03/22 07:42	AJ	XEN MID
Soluble	Leach	DI Leach			20806	03/03/22 12:05	CH	XEN MID
Soluble	Analysis	300.0		1	20936	03/08/22 12:17	CH	XEN MID

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Nash 39

Job ID: 890-2032-1
SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2032-1	FS08A	Solid	02/28/22 10:25	03/01/22 09:19	1.5

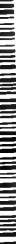
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Work Order No:

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Work Order Comments	
Program: UST/PST ☐ PRR ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	



890-2032 Chain of Custody

At

1631 / 245.1 / 7470 / 7471 : Hg

3/1/22 9:10

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2032-1

SDG Number: 31403236.020.0129

Login Number: 2032

List Number: 1

Creator: Olivas, Nathaniel

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	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2032-1
SDG Number: 31403236.020.0129Login Number: 2032
List Number: 2
Creator: Kramer, JessicaList Source: Eurofins Midland
List Creation: 03/02/22 11:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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 92515

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 92515
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/28/2022