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	NAPP2128451743
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.g.pennington@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.31862 Longitude -103.93613
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nash Unit 43H	Site Type Production Well
Date Release Discovered 10/03/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	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) 2.67	Volume Recovered (bbls) 2.40
☒ Produced Water	Volume Released (bbls) 14.04	Volume Recovered (bbls) 12.60
	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: The packing on the stuffing box leaked, releasing fluids onto the pad. A vacuum truck was dispatched and recovered all standing fluids, including rainwater from recent weather events. A third-party contractor has been retained for remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2128451743
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Facility ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A

Initial Response

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

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

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

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

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

Printed Name: Shelby Pennington
Title: Environmental Manager
Signature: Shelby Pennington
Date: **10/11/21**
email: shelby.g.pennington@exxonmobil.com
Telephone: 281-723-9353

OCD Only

Received by: Ramona Marcus
Date: 10/12/2021

Location:	Nash Unit 43H	
Spill Date:	10/3/2021	
Area 1		
Approximate Area =	5138.00	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	2.67	bbls
Total Produced Water =	14.04	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**2.67**	**bbls**
Total Produced Water =	**14.04**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**2.40**	**bbls**
Total Produced Water =	**12.60**	**bbls**

Incident ID	NAPP2128451743
District RP	
Facility ID	
Application ID	

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?	<50 (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

Incident ID	NAPP2128451743
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Facility ID	
Application ID	

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

Printed Name: _____Adrian Baker_____ Title: _____Environmental Coordinator_____

Signature: _____ _____ Date: _____01/01/2022_____

Email: _____adrian.baker@exxonmobil.com_____ Telephone: _____432-236-3808_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2128451743
District RP	
Facility ID	
Application ID	

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: Adrian Baker Date: 01/01/2022

Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

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

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

Signature: Chad Hensley Date: 02/18/2022

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

January 01, 2022

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

RE: Remediation Work Plan
Nash Unit 43H
Incident Number NAPP2128451743
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Remediation Work Plan (Work Plan) detailing site assessment activities completed to date and a proposed work plan to address the impacted soil at the Nash Unit 43H (Site) in Unit J, Section 12, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The following Work Plan proposes to establish a naturally occurring chloride concentration to be applied at the Site, complete excavation of impacted soil exceeding the Site Closure Criteria and/or background chloride concentrations and proposes a variance to the sampling frequency due to the estimated size of the excavation.

RELEASE BACKGROUND

On October 3, 2021, the packing on the stuffing box leaked, resulting in the release of 2.67 barrels (bbls) of crude oil and 14.04 bbls of produced water onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 2.40 bbls of crude oil and 12.60 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 11, 2021. The release was assigned Incident Number NAPP2128451743.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well C-4472, located approximately 1.02 miles Southeast of the Site. The groundwater well has a reported depth to groundwater of 37 feet bgs and a total depth of 55 feet bgs. Ground surface

elevation at the groundwater well location is 3,015 feet above mean sea level (amsl), which is 33 feet higher in elevation than the site. The referenced well records are included in Attachment 1.

The nearest continuously flowing water or significant watercourse to the Site is a salt lake located adjacent to and surrounding the Site. The Site is located within 200 feet of a lakebed and 300 feet from a wetland. The Site is not located within a 100-year floodplain. The Site is located greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is located greater than 1,000 feet to a freshwater well or spring. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On October 25, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected six preliminary assessment soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photo documentation was completed during the Site assessment and a photographic log is included in Attachment 2.

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

Laboratory analytical results for preliminary soil samples SS01 through SS06 indicated that TPH and chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, additional delineation activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On December 07, 2021, WSP personnel returned to the Site to oversee delineation activities. Four potholes (PH01 through PH04) were advanced via track-hoe within the release extent to delineate the vertical extent of impacted soil. The potholes were advanced to a depth of 4 feet bgs. Delineation soil samples were collected from the potholes at depths ranging from 1-foot bgs to 4-feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. Pothole delineation soil sample locations are depicted on Figure 2. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04, indicated that no benzene, BTEX, or TPH concentrations were detected. Chloride concentrations exceeded Closure Criteria in at least one delineation sample from each pothole. The laboratory analytical results are summarized on the attached Table 1. Due to the proximity of the salt lake, background sampling was scheduled to investigate naturally occurring chloride concentrations at the Site.

BACKGROUND SOIL SAMPLING AND ANALYTICAL RESULTS

Five background potholes (BG01 through BH05) were advanced via track-hoe in undisturbed areas surrounding the well pad. The potholes were advanced to a depth of 4 feet bgs. Soil samples were collected from the background potholes at depths ranging from 1-foot bgs to 4-feet bgs. Soil from the potholes was field screened for chloride utilizing chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The background pothole locations are depicted on Figure 3. The soil samples were collected, handled, and analyzed following the same procedures as described above. Photo documentation of the Site visits and proximity of the salt lake was completed. A photographic log is included in Attachment 2.

Laboratory analytical results for the background soil samples indicated naturally occurring chloride concentrations ranged from 3,910 mg/kg to 42,300 mg/kg at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

PROPOSED REMEDIATION WORK PLAN

Based on the proximity of the salt lake and laboratory analytical results for the background soil samples, chloride naturally occurs in the subsurface at concentrations ranging from 3,910 mg/kg to 42,300 mg/kg. As such, WSP proposes a site-specific Closure Criteria for chloride concentrations in soil of 42,300 mg/kg.

WSP proposes to excavate the impacted soil identified in preliminary soil samples SS01 through SS06 to below the Site Closure Criteria of 100 mg/kg for TPH and to below a background chloride concentration of 42,300 mg/kg. The excavation area is estimated to be approximately 9,300 square feet and will completed to an approximate depth of 1 foot bgs. Following excavation, confirmation samples will be collected from the floor and sidewalls of the excavation.

Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 47 samples) to every 500 square feet (approximately 19 samples). Each 5-point composite floor sample will represent a 500 square foot area. Due to the anticipated shallow depth of the excavation, composite soil samples will represent both the floor and sidewalls of the excavation. Should the depth of the excavation exceed 2 feet, separate sidewall samples will be collected at a frequency of at least 200 square feet. The confirmation soil samples will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples will be handled as described above and analyzed for BTEX, TPH, and chloride at Eurofins in Carlsbad, New Mexico.

XTO will begin the proposed remediation activities within 90 days of the date of approval of this work plan by NMOCD.

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

Sincerely,

WSP USA Inc.

Nihaar Katoch
Assistant Consultant, Geologist

Ashley L. Ager, P.G.
Senior Geologist

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

Attachments:

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

FIGURES

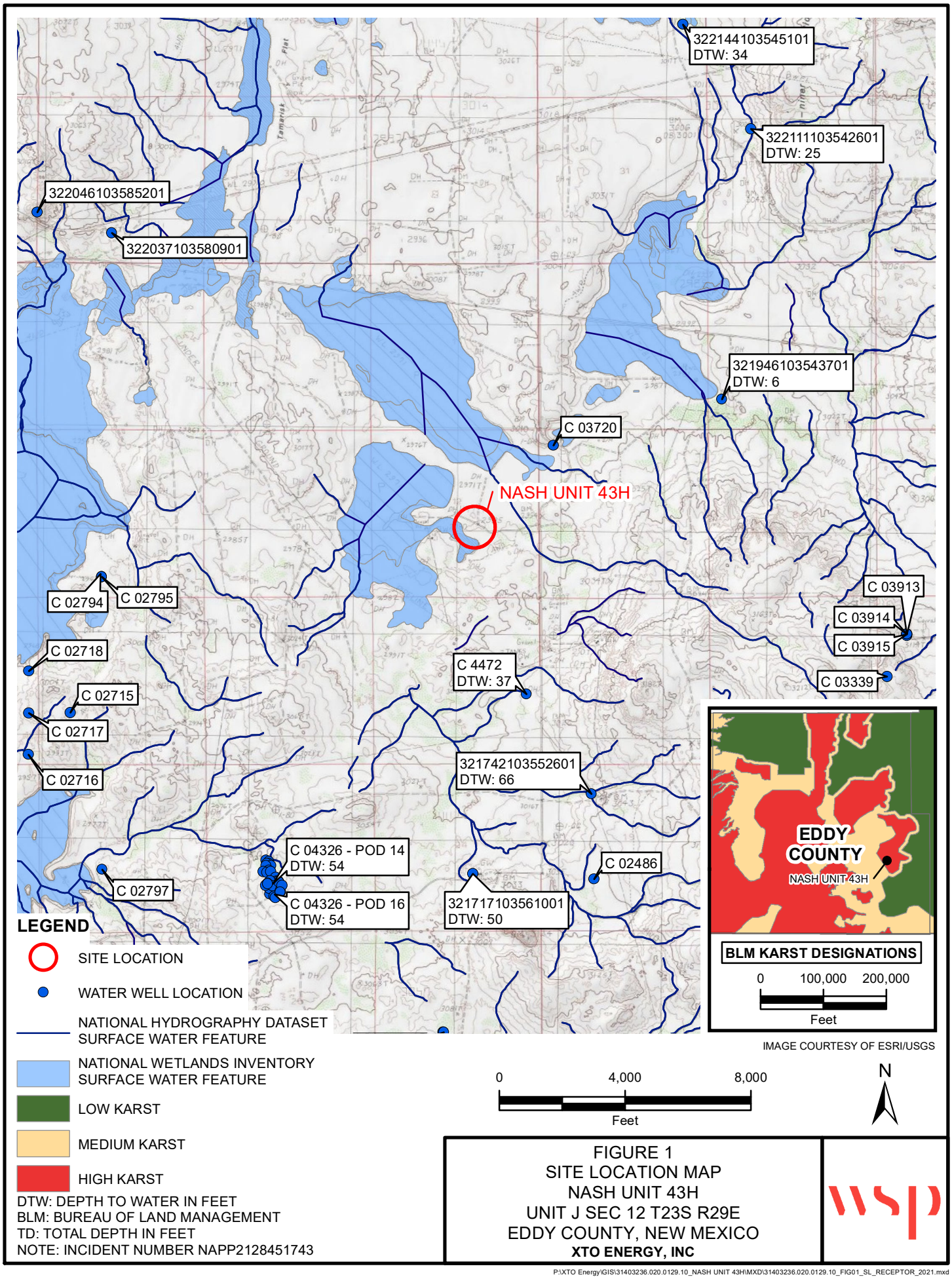


FIGURE 1
SITE LOCATION MAP
NASH UNIT 43H
UNIT J SEC 12 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC

P:\XTO Energy\GIS\31403236.020.0129.10_NASH UNIT 43H\MXD\31403236.020.0129.10_FIG01_SL_RECEPTOR_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

0 100 200

Feet

N

NOTE: INCIDENT NUMBER NAPP2128451743
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
SOIL SAMPLE LOCATIONS
NASH UNIT 43H
UNIT J SEC 12 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\31403236.020.0129.10_NASH UNIT 43H\MXD\31403236.020.0129.10_FIG02_SS_LOC_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

BACKGROUND SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

0 150 300

Feet

N

FIGURE 3
BACKGROUND SOIL SAMPLE LOCATIONS
NASH UNIT 43H
UNIT J SEC 12 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

NOTE: INCIDENT NUMBER NAPP2128451743
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

P:\XTO Energy\GIS\31403236.020.0129.10_NASH UNIT 43H\MXD\31403236.020.0129.10_FIG03_BACKGROUND_2021.mxd

TABLES

Table 1

Soil Analytical Results
Nash Unit 43H
NAPP2128451743
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**
Surface Samples										
SS01	10/25/2021	0.5	<0.00200	<0.00200	330	<49.9	87.5	<49.9	**418**	**75,400**
SS02	10/25/2021	0.5	<0.00200	<0.00200	4,710	<49.9	915	<49.9	**5,630**	**73,900**
SS03	10/25/2021	0.5	<0.00199	<0.00199	2,580	<49.9	<49.9	<49.9	**2,580**	**55,600**
SS04	10/25/2021	0.5	<0.00202	<0.00202	1,440	<49.9	<49.9	<49.9	**1,440**	**35,900**
SS05	10/25/2021	0.5	<0.00199	<0.00199	1,190	<49.9	<49.9	<49.9	**1,190**	**59,100**
SS06	10/25/2021	0.5	<0.00199	<0.00199	1,140	<49.8	<49.8	<49.8	**1,140**	**94,300**
Delineation Samples										
PH01	12/07/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	99.7
PH01C	12/07/2021	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	**602**
PH02	12/07/2021	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	**855**
PH02C	12/07/2021	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**684**
PH03	12/07/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	492
PH03C	12/07/2021	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	**3,340**
PH04B	12/07/2021	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	**3,330**
PH04C	12/07/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**2,140**
Background Samples										
BG01	12/08/2021	1	NA	NA	NA	NA	NA	NA	NA	**37,000**
BG01A	12/08/2021	2	NA	NA	NA	NA	NA	NA	NA	**42,300**
BG01B	12/08/2021	3	NA	NA	NA	NA	NA	NA	NA	**27,200**
BG01C	12/08/2021	4	NA	NA	NA	NA	NA	NA	NA	**20,800**

Table 1

Soil Analytical Results
Nash Unit 43H
NAPP2128451743
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**
BG02	12/08/2021	1	NA	NA	NA	NA	NA	NA	NA	**7,900**
BG02A	12/08/2021	2	NA	NA	NA	NA	NA	NA	NA	**3,910**
BG02B	12/08/2021	3	NA	NA	NA	NA	NA	NA	NA	**4,310**
BG02C	12/08/2021	4	NA	NA	NA	NA	NA	NA	NA	**7,840**
BG03	12/08/2021	1	NA	NA	NA	NA	NA	NA	NA	**27,600**
BG03A	12/08/2021	2	NA	NA	NA	NA	NA	NA	NA	**28,100**
BG03B	12/08/2021	3	NA	NA	NA	NA	NA	NA	NA	**25,700**
BG03C	12/08/2021	4	NA	NA	NA	NA	NA	NA	NA	**28,100**
BG04	12/08/2021	1	NA	NA	NA	NA	NA	NA	NA	**7,650**
BG04A	12/08/2021	2	NA	NA	NA	NA	NA	NA	NA	**7,870**
BG04B	12/08/2021	3	NA	NA	NA	NA	NA	NA	NA	**26,500**
BG04C	12/08/2021	4	NA	NA	NA	NA	NA	NA	NA	**32,000**

Table 1

Soil Analytical Results
Nash Unit 43H
NAPP2128451743
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**
BG05	12/08/2021	1	NA	NA	NA	NA	NA	NA	NA	**20,700**
BG05A	12/08/2021	2	NA	NA	NA	NA	NA	NA	NA	**9,240**
BG05B	12/08/2021	3	NA	NA	NA	NA	NA	NA	NA	**18,200**
BG05C	12/08/2021	4	NA	NA	NA	NA	NA	NA	NA	**15,900**

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: REFERENCED WELL RECORDS

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

10/06/2020

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4472 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4472 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

APPLICANT COPY

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4472

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS		
	LATITUDE	32°	18'	13.90"	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE	-103°	55'	51.66"	W	* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

NE NE SE (Unit 1) Sec. 13 T23S R29E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
09/11/20	09/11/20	temporary well material	55	±37

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 37

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2	2	Sand, Medium , poorly-graded with silt and gravel , no plasticity, Brown	Y ✓ N	
2	19	17	Caliche, increased cementation with depth, Light Gray	Y ✓ N	
19	40	21	Dolomite/Dolostone with micro crystalline matrix, Yellow-Gray	✓ Y N	
40	55	15	Clay, Fat inorganic, High Plasticity. Tan, Red	✓ Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring plugged using Type I/II Neat Cement Slurry (<6.0 gallons per 94 lbs. sack) from total depth to surface.
Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 10/06/2020

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

2020-10-05_C-4472POD1_OSE_Well Record and Log-forsign

Final Audit Report 2020-10-06

Created:	2020-10-06
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transcription ID:	CBJCHBCAABAAVNExAMfaqXv8kEK9Z4CDvLMLBTSbjMjK

"2020-10-05_C-4472POD1_OSE_Well Record and Log-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-06 - 3:00:23 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-06 - 3:00:55 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-06 - 4:18:52 PM GMT- IP address: 74.50.153.115

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-06 - 4:20:55 PM GMT - Time Source: server- IP address: 74.50.153.115

Agreement completed.
2020-10-06 - 4:20:55 PM GMT

Adobe Sign

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4472-POD1

Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Elridge

4) Date well plugging began: 09/15/20 Date well plugging concluded: 09/15/20

5) GPS Well Location: Latitude: 32 deg, 10 min, 51.44 sec
Longitude: -103 deg, 52 min, 38.65 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: ±37 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 09/02/2020

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

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

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-55' Neat Cement <6.0 gallons per 94 lb Sack	Approx. 90 gallons	94 gallons	tremie	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins — Signature of Well Driller

10/06/20 — Date

Version: September 8, 2009
Page 2 of 2

2020-10-06_C04772-POD1_WD-11 Plugging Record-forsign

Final Audit Report 2020-10-06

Created:	2020-10-06
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAta8pjlHV3q7JhqJT1LVAj9QU1bVSjcR6

"2020-10-06_C04772-POD1_WD-11 Plugging Record-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-06 - 3:39:12 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-06 - 3:40:09 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-06 - 4:22:50 PM GMT- IP address: 74.50.153.115

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-06 - 4:23:08 PM GMT - Time Source: server- IP address: 74.50.153.115

Agreement completed.
2020-10-06 - 4:23:08 PM GMT

Adobe Sign

USGS 321946103543701 23S.30E.06.42430

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

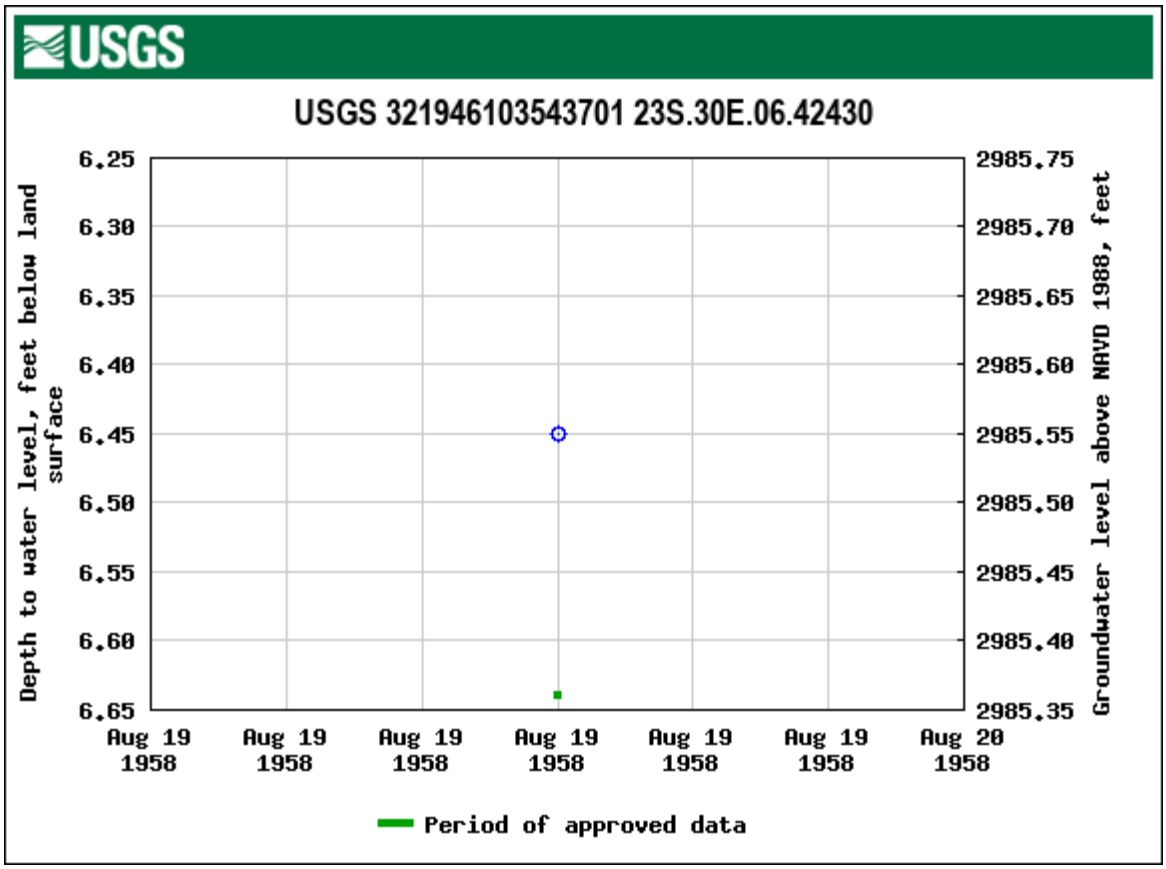
Latitude 32°19'46", Longitude 103°54'37" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 30 feet
Land surface altitude: 2,992 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-08-19	1958-08-19	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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


USGS
USGS 321946103543701 23S.30E.06.42430
Depth to water level, feet below land surface
6.25
6.30
6.35
6.40
6.45
6.50
6.55
6.60
6.65
2985.75
2985.70
2985.65
2985.60
2985.55
2985.50
2985.45
2985.40
2985.35
Groundwater level above NAVD 1988, feet
Aug 19 1958
Aug 19 1958
Aug 19 1958
Aug 19 1958
Aug 19 1958
Aug 19 1958
Aug 20 1958
Period of approved data

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy	Nash Unit 43H Eddy County, New Mexico	NAPP2128451743

Photo No.	Date
1	October 25, 2021

Release extent facing West

Photo No.	Date
2	October 25, 2021

Release extent facing East.

PHOTOGRAPHIC LOG		
XTO Energy	Nash Unit 43H Eddy County, New Mexico	NAPP2128451743

Photo No.	Date
3	December 07, 2021

View of the salt lake to the West of the Site.

ATTACHMENT 3: LITHOLOGIC/SOIL SAMPLING LOGS

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **PH 01**	Date: **12-07-2021**
	Site Name: **Nash Unit 43H**	
	RP or Incident Number: **NAPP2128451743**	
	WSP Job Number:	**31403236.020.0129**
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: **AC**	Method: Trackhoe
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"** / Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1064	0.4	N	PH01	1	1	CCHE	Caliche
D	1064	0.4	N		2	2	CCHE	Caliche
D	834	0.5	N		3	3	CCHE	Caliche
D	1154	0.5	N	PH01C	4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **PH 02**	Date: **12-07-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1546	0.5	N	PH02	1	1	CCHE	Caliche
D	1663	0.4	N		2	2	CCHE	Caliche
D	1546	0.4	N		3	3	CCHE	Caliche
D	2055	0.5	N	PH02C	4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **PH 03**	Date: **12-07-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	3450	0.3	N	PH03	1	1	SP	Poorly graded sand with gravel
D	3450	0.4	N		2	2	SP	Poorly graded sand with gravel
D	3450	0.3	N		3	3	SP	Poorly graded sand with gravel
D	3450	0.4	N	PH03C	4	4	SP	Poorly graded sand with gravel

TD @ 4 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **PH 04**	Date: **12-07-2021**
	Site Name: **Nash Unit 43H**	
	RP or Incident Number: **NAPP2128451743**	
	WSP Job Number:	**31403236.020.0129**
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: **AC**	Method: Trackhoe
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"** / Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	12942	0.7	N		1	1	SP	Poorly graded sand with gravel
D	3450	1.1	N		2	2	SP	Poorly graded sand with gravel
D	3450	1.7	N	PH04B	3	3	SP	Poorly graded sand with gravel
D	3450	0.5	N	PH04C	4	4	SP	Poorly graded sand with gravel

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BG 01**	Date: **12-08-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	35678		N		1	1	CCHE	Caliche
D	35678		N		2	2	CCHE	Caliche
D	32603		N		3	3	CCHE	Caliche
D	20552		N		4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BG 02**	Date: **12-08-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	7381		N		1	1	CCHE	Caliche
D	5029		N		2	2	CCHE	Caliche
D	6334		N		3	3	CCHE	Caliche
D	10102		N		4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BG 03**	Date: **12-08-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	26925		N		1	1	CCHE	Caliche
D	24226		N		2	2	CCHE	Caliche
D	21974		N		3	3	CCHE	Caliche
D	24256		N		4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BG 04**	Date: **12-08-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	9066		N		1	1	CCHE	Caliche
D	7785		N		2	2	CCHE	Caliche
D	20037	2.1	N		3	3	CCHE	Caliche
D	26925		N		4	4	CCHE	Caliche

TD @ 4 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BG 05**	Date: **12-08-2021**
Site Name: **Nash Unit 43H**	
RP or Incident Number: **NAPP2128451743**	
WSP Job Number: **31403236.020.0129**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AC**	Method: Trackhoe		
Lat/Long: **32.31862, -103.93613**	Field Screening: Hach chloride strips, PID	Hole Diameter: **2.25"**	Total Depth: **4 feet**

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	18351		N		1	1	CCHE	Caliche
D	7790		N		2	2	CCHE	Caliche
D	20037		N		3	3	CCHE	Caliche
D	20037		N		4	4	CCHE	Caliche

TD @ 4 ft bgs

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1481-1
Laboratory Sample Delivery Group: 31403236.020.0129
Client Project/Site: Nash Unit 43H

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
11/1/2021 3:17:43 PM

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

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Laboratory Job ID: 890-1481-1
SDG: 31403236.020.0129

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Qualifiers

GC 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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Job ID: 890-1481-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1481-1

Receipt
The samples were received on 10/25/2021 4:43 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 2.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-1484-A-1-C), (890-1484-A-1-D MS) and (890-1484-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Surrogate recovery for the following sample was outside control limits: SS04 (890-1481-4). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10738 and analytical batch 880-11004 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS01 Lab Sample ID: 890-1481-1

Date Collected: 10/25/21 12:15 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 07:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/27/21 10:38	10/29/21 07:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/27/21 10:38	10/29/21 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:00*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**418**		49.9		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/29/21 09:53	10/29/21 21:29	1
Diesel Range Organics (Over C10-C28)	**330**	**F1**	49.9		mg/Kg		10/29/21 09:53	10/29/21 21:29	1
Oil Range Organics (Over C28-C36)	**87.5**		49.9		mg/Kg		10/29/21 09:53	10/29/21 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/29/21 09:53*	*10/29/21 21:29*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/29/21 09:53*	*10/29/21 21:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75400**		252		mg/Kg			10/30/21 18:31	50

Client Sample ID: SS02 Lab Sample ID: 890-1481-2

Date Collected: 10/25/21 12:20 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 07:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 10:38	10/29/21 07:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 07:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 10:38	10/29/21 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:20*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:20*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS02 Lab Sample ID: 890-1481-2

Date Collected: 10/25/21 12:20 **Matrix: Solid**
Date Received: 10/25/21 16:43
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5630**		49.9		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/29/21 09:53	10/29/21 22:33	1
Diesel Range Organics (Over C10-C28)	**4710**		49.9		mg/Kg		10/29/21 09:53	10/29/21 22:33	1
Oil Range Organics (Over C28-C36)	**915**		49.9		mg/Kg		10/29/21 09:53	10/29/21 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/29/21 09:53*	*10/29/21 22:33*	*1*
o-Terphenyl	*95*		*70 - 130*	*10/29/21 09:53*	*10/29/21 22:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73900**		497		mg/Kg			11/01/21 14:28	100

Client Sample ID: SS03 Lab Sample ID: 890-1481-3

Date Collected: 10/25/21 12:30 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 07:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 07:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 07:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 07:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 07:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*10/27/21 10:38*	*10/29/21 07:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2580**		49.9		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 03:21	1
Diesel Range Organics (Over C10-C28)	**2580**		49.9		mg/Kg		10/29/21 09:34	10/30/21 03:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*10/29/21 09:34*	*10/30/21 03:21*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/29/21 09:34*	*10/30/21 03:21*	*1*

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS03 Lab Sample ID: 890-1481-3

Date Collected: 10/25/21 12:30 **Matrix: Solid**
Date Received: 10/25/21 16:43
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55600**		252		mg/Kg			10/30/21 18:45	50

Client Sample ID: SS04 Lab Sample ID: 890-1481-4

Date Collected: 10/25/21 12:38 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 08:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/27/21 10:38	10/29/21 08:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/27/21 10:38	10/29/21 08:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/27/21 10:38	10/29/21 08:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/27/21 10:38	10/29/21 08:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/27/21 10:38	10/29/21 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:01*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1440**		49.9		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 03:42	1
Diesel Range Organics (Over C10-C28)	**1440**		49.9		mg/Kg		10/29/21 09:34	10/30/21 03:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*20*	*S1-*	*70 - 130*	*10/29/21 09:34*	*10/30/21 03:42*	*1*
o-Terphenyl	*35*	*S1-*	*70 - 130*	*10/29/21 09:34*	*10/30/21 03:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35900**		252		mg/Kg			10/30/21 18:51	50

Client Sample ID: SS05 Lab Sample ID: 890-1481-5

Date Collected: 10/25/21 12:45 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 08:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 08:22	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS05 Lab Sample ID: 890-1481-5

Date Collected: 10/25/21 12:45 **Matrix: Solid**
Date Received: 10/25/21 16:43
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:22*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1190**		49.9		mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 04:02	1
Diesel Range Organics (Over C10-C28)	**1190**		49.9		mg/Kg		10/29/21 09:34	10/30/21 04:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/29/21 09:34	10/30/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*10/29/21 09:34*	*10/30/21 04:02*	*1*
o-Terphenyl	*104*		*70 - 130*	*10/29/21 09:34*	*10/30/21 04:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59100**		249		mg/Kg			10/30/21 18:58	50

Client Sample ID: SS06 Lab Sample ID: 890-1481-6

Date Collected: 10/25/21 12:55 **Matrix: Solid**
Date Received: 10/25/21 16:43
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		10/27/21 10:38	10/29/21 08:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 08:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/27/21 10:38	10/29/21 08:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/27/21 10:38	10/29/21 08:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*10/27/21 10:38*	*10/29/21 08:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1140**		49.8		mg/Kg			10/29/21 13:53	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

Client Sample ID: SS06

Lab Sample ID: 890-1481-6

Date Collected: 10/25/21 12:55
Date Received: 10/25/21 16:43
Sample Depth: 0.5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/29/21 09:34	10/30/21 04:22	1
Diesel Range Organics (Over C10-C28)	**1140**		49.8		mg/Kg		10/29/21 09:34	10/30/21 04:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/29/21 09:34	10/30/21 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*10/29/21 09:34*	*10/30/21 04:22*	*1*
o-Terphenyl	*111*		*70 - 130*	*10/29/21 09:34*	*10/30/21 04:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94300**		499		mg/Kg			10/30/21 19:05	100

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
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)
890-1481-1	SS01	97	109
890-1481-2	SS02	76	88
890-1481-3	SS03	91	107
890-1481-4	SS04	98	111
890-1481-5	SS05	124	126
890-1481-6	SS06	83	98
890-1484-A-1-B MSD	Matrix Spike Duplicate	76	82
890-1484-A-1-D MS	Matrix Spike	94	100
LCS 880-10615/1-A	Lab Control Sample	96	103
LCSD 880-10615/2-A	Lab Control Sample Dup	94	103
MB 880-10614/5-A	Method Blank	99	105
MB 880-10615/5-A	Method Blank	97	106

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)
880-7523-A-1-G MS	Matrix Spike	97	83
880-7523-A-1-H MSD	Matrix Spike Duplicate	100	89
890-1481-1	SS01	110	105
890-1481-1 MS	SS01	107	92
890-1481-1 MSD	SS01	122	101
890-1481-2	SS02	106	95
890-1481-3	SS03	113	121
890-1481-4	SS04	20 S1-	35 S1-
890-1481-5	SS05	106	104
890-1481-6	SS06	117	111
LCS 880-10910/2-A	Lab Control Sample	116	116
LCS 880-10916/2-A	Lab Control Sample	100	91
LCSD 880-10910/3-A	Lab Control Sample Dup	138 S1+	111
LCSD 880-10916/3-A	Lab Control Sample Dup	96	90
MB 880-10910/1-A	Method Blank	116	126
MB 880-10916/1-A	Method Blank	140 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10614/5-A
Matrix: Solid
Analysis Batch: 10827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10614

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/26/21 10:34	10/28/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/26/21 10:34	10/28/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/26/21 10:34	10/28/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/26/21 10:34	10/28/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/26/21 10:34	10/28/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/26/21 10:34	10/28/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/26/21 10:34*	*10/28/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/26/21 10:34*	*10/28/21 12:45*	*1*

Lab Sample ID: MB 880-10615/5-A
Matrix: Solid
Analysis Batch: 10827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10615

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 00:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/27/21 10:38	10/29/21 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/27/21 10:38	10/29/21 00:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/27/21 10:38	10/29/21 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*10/27/21 10:38*	*10/29/21 00:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/27/21 10:38*	*10/29/21 00:18*	*1*

Lab Sample ID: LCS 880-10615/1-A
Matrix: Solid
Analysis Batch: 10827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10615

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09333		mg/Kg		93	70 - 130		
Toluene			0.100	0.1037		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1057		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2092		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1145		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-10615/2-A
Matrix: Solid
Analysis Batch: 10827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10615

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09971		mg/Kg		100	70 - 130	7	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-10615/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10827 **Prep Batch: 10615**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.1086		mg/Kg		109	70 - 130	5	35
Ethylbenzene			0.100	0.1121		mg/Kg		112	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2225		mg/Kg		111	70 - 130	6	35
o-Xylene			0.100	0.1158		mg/Kg		116	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1484-A-1-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10827 **Prep Batch: 10615**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00205	F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1 F2	0.0998	0.02243	F1 F2	mg/Kg		22	70 - 130	83	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.03041	F1 F2	mg/Kg		30	70 - 130	68	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.04465	F1 F2	mg/Kg		22	70 - 130	91	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.02490	F1 F2	mg/Kg		25	70 - 130	94	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 890-1484-A-1-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10827 **Prep Batch: 10615**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00205	F1	0.100	0.05500	F1	mg/Kg		53	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.05453	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.06169	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1194	F1	mg/Kg		60	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06899	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-10910/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10885 **Prep Batch: 10910**

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		10/29/21 09:34	10/29/21 19:59	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

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

Lab Sample ID: MB 880-10910/1-A
Matrix: Solid
Analysis Batch: 10885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10910

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		10/29/21 09:34	10/29/21 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 09:34	10/29/21 19:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*10/29/21 09:34*	*10/29/21 19:59*	*1*
o-Terphenyl	*126*		*70 - 130*	*10/29/21 09:34*	*10/29/21 19:59*	*1*

Lab Sample ID: LCS 880-10910/2-A
Matrix: Solid
Analysis Batch: 10885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10910

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1098		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	992.5		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: LCSD 880-10910/3-A
Matrix: Solid
Analysis Batch: 10885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10910

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1115		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	996.5		mg/Kg		100	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*138*	*S1+*	*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 880-7523-A-1-G MS
Matrix: Solid
Analysis Batch: 10885

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 10910

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	997	973.1		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	819.5		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

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

Lab Sample ID: 880-7523-A-1-H MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10885 **Prep Batch: 10910**

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	1000	990.1		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	892.6		mg/Kg		86	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: MB 880-10916/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10891 **Prep Batch: 10916**

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		10/29/21 09:53	10/29/21 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/29/21 09:53	10/29/21 20:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 09:53	10/29/21 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*10/29/21 09:53*	*10/29/21 20:27*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*10/29/21 09:53*	*10/29/21 20:27*	*1*

Lab Sample ID: LCS 880-10916/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10891 **Prep Batch: 10916**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	823.6		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1181		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-10916/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 10891 **Prep Batch: 10916**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.9		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130	9	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-10916/3-A
Matrix: Solid
Analysis Batch: 10891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10916

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-1481-1 MS
Matrix: Solid
Analysis Batch: 10891

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 10916

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	997	1025		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	330	F1	997	969.1	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-1481-1 MSD
Matrix: Solid
Analysis Batch: 10891

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 10916

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	1000	1135		mg/Kg		113	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	330	F1	1000	1127		mg/Kg		80	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10738/1-A
Matrix: Solid
Analysis Batch: 11004

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			10/30/21 16:20	1

Lab Sample ID: LCS 880-10738/2-A
Matrix: Solid
Analysis Batch: 11004

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	233.8		mg/Kg		94	90 - 110

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-10738/3-A
Matrix: Solid
Analysis Batch: 11004

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	233.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-7580-A-1-E MS
Matrix: Solid
Analysis Batch: 11004

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	21.1		248	268.4		mg/Kg		100	90 - 110

Lab Sample ID: 880-7580-A-1-F MSD
Matrix: Solid
Analysis Batch: 11004

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	21.1		248	268.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-7614-A-1-E MS
Matrix: Solid
Analysis Batch: 11004

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	818	F1	251	1005	F1	mg/Kg		75	90 - 110

Lab Sample ID: 880-7614-A-1-F MSD
Matrix: Solid
Analysis Batch: 11004

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	818	F1	251	1003	F1	mg/Kg		74	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

GC VOA

Prep Batch: 10614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10614/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Total/NA	Solid	5035	
890-1481-2	SS02	Total/NA	Solid	5035	
890-1481-3	SS03	Total/NA	Solid	5035	
890-1481-4	SS04	Total/NA	Solid	5035	
890-1481-5	SS05	Total/NA	Solid	5035	
890-1481-6	SS06	Total/NA	Solid	5035	
MB 880-10615/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10615/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10615/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1484-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1484-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 10827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Total/NA	Solid	8021B	10615
890-1481-2	SS02	Total/NA	Solid	8021B	10615
890-1481-3	SS03	Total/NA	Solid	8021B	10615
890-1481-4	SS04	Total/NA	Solid	8021B	10615
890-1481-5	SS05	Total/NA	Solid	8021B	10615
890-1481-6	SS06	Total/NA	Solid	8021B	10615
MB 880-10614/5-A	Method Blank	Total/NA	Solid	8021B	10614
MB 880-10615/5-A	Method Blank	Total/NA	Solid	8021B	10615
LCS 880-10615/1-A	Lab Control Sample	Total/NA	Solid	8021B	10615
LCSD 880-10615/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10615
890-1484-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10615
890-1484-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	10615

GC Semi VOA

Analysis Batch: 10885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-3	SS03	Total/NA	Solid	8015B NM	10910
890-1481-4	SS04	Total/NA	Solid	8015B NM	10910
890-1481-5	SS05	Total/NA	Solid	8015B NM	10910
890-1481-6	SS06	Total/NA	Solid	8015B NM	10910
MB 880-10910/1-A	Method Blank	Total/NA	Solid	8015B NM	10910
LCS 880-10910/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10910
LCSD 880-10910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10910
880-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	10910
880-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10910

Analysis Batch: 10891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Total/NA	Solid	8015B NM	10916
890-1481-2	SS02	Total/NA	Solid	8015B NM	10916
MB 880-10916/1-A	Method Blank	Total/NA	Solid	8015B NM	10916
LCS 880-10916/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10916

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

GC Semi VOA (Continued)

Analysis Batch: 10891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-10916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10916
890-1481-1 MS	SS01	Total/NA	Solid	8015B NM	10916
890-1481-1 MSD	SS01	Total/NA	Solid	8015B NM	10916

Prep Batch: 10910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-3	SS03	Total/NA	Solid	8015NM Prep	
890-1481-4	SS04	Total/NA	Solid	8015NM Prep	
890-1481-5	SS05	Total/NA	Solid	8015NM Prep	
890-1481-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-10910/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10910/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 10916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Total/NA	Solid	8015NM Prep	
890-1481-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-10916/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10916/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10916/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1481-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-1481-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Total/NA	Solid	8015 NM	
890-1481-2	SS02	Total/NA	Solid	8015 NM	
890-1481-3	SS03	Total/NA	Solid	8015 NM	
890-1481-4	SS04	Total/NA	Solid	8015 NM	
890-1481-5	SS05	Total/NA	Solid	8015 NM	
890-1481-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Soluble	Solid	DI Leach	
890-1481-2	SS02	Soluble	Solid	DI Leach	
890-1481-3	SS03	Soluble	Solid	DI Leach	
890-1481-4	SS04	Soluble	Solid	DI Leach	
890-1481-5	SS05	Soluble	Solid	DI Leach	
890-1481-6	SS06	Soluble	Solid	DI Leach	
MB 880-10738/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10738/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10738/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7580-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7580-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-7614-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

HPLC/IC (Continued)

Leach Batch: 10738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7614-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1481-1	SS01	Soluble	Solid	300.0	10738
890-1481-2	SS02	Soluble	Solid	300.0	10738
890-1481-3	SS03	Soluble	Solid	300.0	10738
890-1481-4	SS04	Soluble	Solid	300.0	10738
890-1481-5	SS05	Soluble	Solid	300.0	10738
890-1481-6	SS06	Soluble	Solid	300.0	10738
MB 880-10738/1-A	Method Blank	Soluble	Solid	300.0	10738
LCS 880-10738/2-A	Lab Control Sample	Soluble	Solid	300.0	10738
LCSD 880-10738/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10738
880-7580-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	10738
880-7580-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10738
880-7614-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	10738
880-7614-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10738

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS01 Lab Sample ID: 890-1481-1

Date Collected: 10/25/21 12:15 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 07:00	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10891	10/29/21 21:29	AJ	XEN MID
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		50	11004	10/30/21 18:31	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1481-2

Date Collected: 10/25/21 12:20 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 07:20	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10916	10/29/21 09:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10891	10/29/21 22:33	AJ	XEN MID
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		100	11004	11/01/21 14:28	CH	XEN MID

Client Sample ID: SS03 Lab Sample ID: 890-1481-3

Date Collected: 10/25/21 12:30 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 07:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10910	10/29/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10885	10/30/21 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		50	11004	10/30/21 18:45	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-1481-4

Date Collected: 10/25/21 12:38 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 08:01	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10910	10/29/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10885	10/30/21 03:42	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Client Sample ID: SS04 Lab Sample ID: 890-1481-4

Date Collected: 10/25/21 12:38 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		50	11004	10/30/21 18:51	CH	XEN MID

Client Sample ID: SS05 Lab Sample ID: 890-1481-5

Date Collected: 10/25/21 12:45 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 08:22	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10910	10/29/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10885	10/30/21 04:02	AJ	XEN MID
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		50	11004	10/30/21 18:58	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-1481-6

Date Collected: 10/25/21 12:55 **Matrix: Solid**
Date Received: 10/25/21 16:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10615	10/27/21 10:38	KL	XEN MID
Total/NA	Analysis	8021B		1	10827	10/29/21 08:42	MR	XEN MID
Total/NA	Analysis	8015 NM		1	10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10910	10/29/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	10885	10/30/21 04:22	AJ	XEN MID
Soluble	Leach	DI Leach			10738	10/27/21 12:23	SC	XEN MID
Soluble	Analysis	300.0		100	11004	10/30/21 19:05	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. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1481-1
Project/Site: Nash Unit 43H SDG: 31403236.020.0129

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

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 43H

Job ID: 890-1481-1
SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1481-1	SS01	Solid	10/25/21 12:15	10/25/21 16:43	0.5
890-1481-2	SS02	Solid	10/25/21 12:20	10/25/21 16:43	0.5
890-1481-3	SS03	Solid	10/25/21 12:30	10/25/21 16:43	0.5
890-1481-4	SS04	Solid	10/25/21 12:38	10/25/21 16:43	0.5
890-1481-5	SS05	Solid	10/25/21 12:45	10/25/21 16:43	0.5
890-1481-6	SS06	Solid	10/25/21 12:55	10/25/21 16:43	0.5

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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

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Project Manager:	Dan Moir	Bill to: (if different)	Adrian Baker
Company Name:	WSP Permian office	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) 236-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Nash Unit 43H	Turn Around	
Project Number:	31403236.020.0129	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Elliot Lee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	3.0/2.8	Thermometer ID	TMM-007	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS01	S	10/25/2021	12:15	0.5'	1	X	X	X
SS02	S	10/25/2021	12:20	0.5'	1	X	X	X
SS03	S	10/25/2021	12:30	0.5'	1	X	X	X
SS04	S	10/25/2021	12:38	0.5'	1	X	X	X
SS05	S	10/25/2021	12:45	0.5'	1	X	X	X
SS06	S	10/25/2021	12:55	0.5'	1	X	X	X

890-1481 Chain of Custody

Work Order Notes

Cost Center # 1140771001
Incident # NAPP2128451743

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

Sample Comments

Sample Comments
Discrete
Discrete
Discrete
Discrete
Discrete
Discrete

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10.25.21 1643			
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-481 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1481-1
Address: 1211 W Florida Ave	Due Date Requested: 10/29/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Nash Unit 43H	Project #: 89000004			
Site	SSOW#:			

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, 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/5035FP_Calc (MOD) BTEX	Total Number of containers	Special Instructions/Note
				Preservation Code:								
SS01 (890-1481-1)	10/25/21	12 15 Mountain		Solid			X	X	X	X	1	
SS02 (890-1481-2)	10/25/21	12.20 Mountain		Solid			X	X	X	X	1	
SS03 (890-1481-3)	10/25/21	12 30 Mountain		Solid			X	X	X	X	1	
SS04 (890-1481-4)	10/25/21	12 38 Mountain		Solid			X	X	X	X	1	
SS05 (890-1481-5)	10/25/21	12 45 Mountain		Solid			X	X	X	X	1	
SS06 (890-1481-6)	10/25/21	12 55 Mountain		Solid			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 analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested I II III IV Other (specify) — Primary Deliverable Rank 2

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:	
Relinquished by: [signature] 10·26·21	Date/Time	Company	Received by: [signature] KRAMER	Date/Time: 10·27·21 1112	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks 2.6/2.7		

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1481-1
SDG Number: 31403236.020.0129

Login Number: 1481
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: 890-1481-1
SDG Number: 31403236.020.0129

Login Number: 1481
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/27/21 11:09 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	2.6/2.7
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1688-1
Laboratory SDG: 31403236.020.0129 task #10.02
Client Project/Site: Nash Unit 043h

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
12/10/2021 7:32:30 PM

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

Client: WSP USA Inc.
Project/Site: Nash Unit 043h

Laboratory Job ID: 890-1688-1
SDG: 31403236.020.0129 task #10.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Job ID: 890-1688-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1688-1

Receipt
The samples were received on 12/8/2021 11:25 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 3.8°C

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14384 and analytical batch 880-14419 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH01 Lab Sample ID: 890-1688-1

Date Collected: 12/07/21 14:00 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/09/21 07:30	12/09/21 12:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/09/21 07:30	12/09/21 12:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/09/21 07:30	12/09/21 12:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/09/21 07:30	12/09/21 12:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/09/21 07:30	12/09/21 12:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/09/21 07:30	12/09/21 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/09/21 07:30*	*12/09/21 12:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/09/21 07:30*	*12/09/21 12:53*	*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			12/09/21 09:52	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			12/09/21 14:45	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		12/09/21 08:34	12/09/21 13:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 13:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/09/21 08:34*	*12/09/21 13:35*	*1*
o-Terphenyl	*92*		*70 - 130*	*12/09/21 08:34*	*12/09/21 13:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.7**		5.05		mg/Kg			12/10/21 16:59	1

Client Sample ID: PH01C Lab Sample ID: 890-1688-2

Date Collected: 12/07/21 14:15 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 13:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 13:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 13:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/09/21 07:30	12/09/21 13:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 13:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/09/21 07:30	12/09/21 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:13*	*1*

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH01C
Lab Sample ID: 890-1688-2
Date Collected: 12/07/21 14:15 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:13*	*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			12/09/21 09:52	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			12/09/21 14:45	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		12/09/21 08:34	12/09/21 13:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/21 08:34	12/09/21 13:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/21 08:34	12/09/21 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/09/21 08:34*	*12/09/21 13:56*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/09/21 08:34*	*12/09/21 13:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**602**		24.8	mg/Kg			12/10/21 17:19	5

Client Sample ID: PH02
Lab Sample ID: 890-1688-3
Date Collected: 12/07/21 14:20 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 13:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 13:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 13:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/09/21 13:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/09/21 07:30	12/09/21 13:34	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/09/21 07:30	12/09/21 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:34*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:34*	*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			12/09/21 09:52	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			12/10/21 15:57	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH02
Lab Sample ID: 890-1688-3
Date Collected: 12/07/21 14:20 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 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		12/09/21 08:34	12/09/21 14:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 14:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/09/21 08:34*	*12/09/21 14:18*	*1*
o-Terphenyl	*90*		*70 - 130*	*12/09/21 08:34*	*12/09/21 14:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**855**		25.1		mg/Kg			12/10/21 17:26	5

Client Sample ID: PH02C
Lab Sample ID: 890-1688-4
Date Collected: 12/07/21 14:35 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 13:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/09/21 07:30	12/09/21 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 13:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/09/21 07:30	12/09/21 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/09/21 07:30*	*12/09/21 13:54*	*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			12/09/21 09:52	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			12/10/21 15:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/09/21 08:34*	*12/09/21 14:39*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/09/21 08:34*	*12/09/21 14:39*	*1*

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH02C
Lab Sample ID: 890-1688-4
Date Collected: 12/07/21 14:35 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684		25.2		mg/Kg			12/10/21 17:33	5

Client Sample ID: PH03
Lab Sample ID: 890-1688-5
Date Collected: 12/07/21 14:45 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/09/21 07:30	12/09/21 14:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/09/21 07:30	12/09/21 14:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/09/21 07:30	12/09/21 14:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/09/21 07:30	12/09/21 14:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/09/21 07:30	12/09/21 14:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/09/21 07:30	12/09/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*12/09/21 07:30*	*12/09/21 14:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/09/21 07:30*	*12/09/21 14:14*	*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			12/09/21 09:52	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			12/10/21 15:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/09/21 08:34	12/09/21 15:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/09/21 08:34	12/09/21 15:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/09/21 08:34	12/09/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:01*	*1*
o-Terphenyl	*91*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		24.9		mg/Kg			12/10/21 17:39	5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH03C
Lab Sample ID: 890-1688-6
Date Collected: 12/07/21 15:00 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 14:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 14:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 14:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/09/21 07:30	12/09/21 14:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/09/21 07:30	12/09/21 14:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/09/21 07:30	12/09/21 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*12/09/21 07:30*	*12/09/21 14:35*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/09/21 07:30*	*12/09/21 14:35*	*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			12/09/21 09:52	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			12/10/21 15:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 15:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 15:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:22*	*1*
o-Terphenyl	*92*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3340**		24.8		mg/Kg			12/10/21 17:46	5

Client Sample ID: PH04B
Lab Sample ID: 890-1688-7
Date Collected: 12/07/21 15:25 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 14:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 14:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 14:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/21 07:30	12/09/21 14:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 14:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/21 07:30	12/09/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*12/09/21 07:30*	*12/09/21 14:55*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 043h

Job ID: 890-1688-1
SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH04B

Date Collected: 12/07/21 15:25
Date Received: 12/08/21 11:25
Sample Depth: 3

Lab Sample ID: 890-1688-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/09/21 07:30*	*12/09/21 14:55*	*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			12/09/21 09:52	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			12/10/21 15:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/09/21 08:34	12/09/21 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/09/21 08:34	12/09/21 15:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/09/21 08:34	12/09/21 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*88*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:44*	*1*
o-Terphenyl	*89*		*70 - 130*	*12/09/21 08:34*	*12/09/21 15:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		25.0	mg/Kg			12/10/21 17:53	5

Client Sample ID: PH04C

Date Collected: 12/07/21 15:30
Date Received: 12/08/21 11:25
Sample Depth: 4

Lab Sample ID: 890-1688-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 15:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 15:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 15:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/09/21 15:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/09/21 07:30	12/09/21 15:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/09/21 07:30	12/09/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*12/09/21 07:30*	*12/09/21 15:16*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/09/21 07:30*	*12/09/21 15:16*	*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			12/09/21 09:52	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			12/10/21 15:57	1

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH04C **Lab Sample ID: 890-1688-8**
Date Collected: 12/07/21 15:30 **Matrix: Solid**
Date Received: 12/08/21 11:25
Sample Depth: 4

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		12/09/21 08:34	12/09/21 16:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 16:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/21 08:34	12/09/21 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/09/21 08:34*	*12/09/21 16:05*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/09/21 08:34*	*12/09/21 16:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2140**		50.1		mg/Kg			12/10/21 17:59	10

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Nash Unit 043h

Job ID: 890-1688-1
SDG: 31403236.020.0129 task #10.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-9152-A-1-B MS	Matrix Spike	110	106
880-9152-A-1-C MSD	Matrix Spike Duplicate	106	99
890-1688-1	PH01	115	103
890-1688-2	PH01C	127	114
890-1688-3	PH02	130	79
890-1688-4	PH02C	128	104
890-1688-5	PH03	124	91
890-1688-6	PH03C	144 S1+	102
890-1688-7	PH04B	128	106
890-1688-8	PH04C	146 S1+	116
LCS 880-14294/1-A	Lab Control Sample	123	132 S1+
LCSD 880-14294/2-A	Lab Control Sample Dup	99	98
MB 880-14294/5-A	Method Blank	125	124

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-9100-A-41-G MS	Matrix Spike	95	85
880-9100-A-41-H MSD	Matrix Spike Duplicate	108	110
890-1688-1	PH01	90	92
890-1688-2	PH01C	88	88
890-1688-3	PH02	90	90
890-1688-4	PH02C	95	88
890-1688-5	PH03	91	91
890-1688-6	PH03C	93	92
890-1688-7	PH04B	88	89
890-1688-8	PH04C	93	93

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)	
		1CO2	OTPH2
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCS 880-14331/2-A	Lab Control Sample	94	99
LCSD 880-14331/3-A	Lab Control Sample Dup	125	127
MB 880-14331/1-A	Method Blank	103	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash Unit 043h

Job ID: 890-1688-1
SDG: 31403236.020.0129 task #10.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14294/5-A
Matrix: Solid
Analysis Batch: 14330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14294

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 10:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/21 07:30	12/09/21 10:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/21 07:30	12/09/21 10:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/21 07:30	12/09/21 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/09/21 07:30*	*12/09/21 10:56*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*12/09/21 07:30*	*12/09/21 10:56*	*1*

Lab Sample ID: LCS 880-14294/1-A
Matrix: Solid
Analysis Batch: 14330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14294

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08373		mg/Kg		84	70 - 130		
Toluene			0.100	0.08136		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.08390		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1744		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.07812		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-14294/2-A
Matrix: Solid
Analysis Batch: 14330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 14294

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08551		mg/Kg		86	70 - 130	2	35
Toluene			0.100	0.08218		mg/Kg		82	70 - 130	1	35
Ethylbenzene			0.100	0.08323		mg/Kg		83	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1733		mg/Kg		87	70 - 130	1	35
o-Xylene			0.100	0.08144		mg/Kg		81	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-9152-A-1-B MS
Matrix: Solid
Analysis Batch: 14330

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 14294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0992	0.1041		mg/Kg		105	70 - 130		
Toluene	<0.00200	U	0.0992	0.09784		mg/Kg		99	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

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

Lab Sample ID: 880-9152-A-1-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14330 **Prep Batch: 14294**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0992	0.09524		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2037		mg/Kg		103	70 - 130
o-Xylene	<0.00200	U	0.0992	0.09948		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-9152-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14330 **Prep Batch: 14294**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1055		mg/Kg		105	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09935		mg/Kg		99	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09536		mg/Kg		95	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1970		mg/Kg		98	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1006		mg/Kg		100	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-14331/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

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		12/09/21 08:34	12/09/21 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 11:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/21 08:34	12/09/21 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*12/09/21 08:34*	*12/09/21 11:07*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/09/21 08:34*	*12/09/21 11:07*	*1*

Lab Sample ID: LCS 880-14331/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

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

Lab Sample ID: LCS 880-14331/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-14331/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1062		mg/Kg		106	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1038		mg/Kg		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-9100-A-41-G MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

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 F1	997	1137		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1159		mg/Kg		116	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-9100-A-41-H MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14325 **Prep Batch: 14331**

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	1312	F1	mg/Kg		131	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1388	F1	mg/Kg		139	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14384/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14419

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/10/21 14:06	1

Lab Sample ID: LCS 880-14384/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14419

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	271.7		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-14384/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	273.8		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 890-1687-A-22-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	523	F1	249	802.0	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 890-1687-A-22-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14419

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	523	F1	249	794.9		mg/Kg		109	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

GC VOA

Prep Batch: 14294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	5035	
890-1688-2	PH01C	Total/NA	Solid	5035	
890-1688-3	PH02	Total/NA	Solid	5035	
890-1688-4	PH02C	Total/NA	Solid	5035	
890-1688-5	PH03	Total/NA	Solid	5035	
890-1688-6	PH03C	Total/NA	Solid	5035	
890-1688-7	PH04B	Total/NA	Solid	5035	
890-1688-8	PH04C	Total/NA	Solid	5035	
MB 880-14294/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14294/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14294/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9152-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	8021B	14294
890-1688-2	PH01C	Total/NA	Solid	8021B	14294
890-1688-3	PH02	Total/NA	Solid	8021B	14294
890-1688-4	PH02C	Total/NA	Solid	8021B	14294
890-1688-5	PH03	Total/NA	Solid	8021B	14294
890-1688-6	PH03C	Total/NA	Solid	8021B	14294
890-1688-7	PH04B	Total/NA	Solid	8021B	14294
890-1688-8	PH04C	Total/NA	Solid	8021B	14294
MB 880-14294/5-A	Method Blank	Total/NA	Solid	8021B	14294
LCS 880-14294/1-A	Lab Control Sample	Total/NA	Solid	8021B	14294
LCSD 880-14294/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14294
880-9152-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	14294
880-9152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14294

Analysis Batch: 14350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	Total BTEX	
890-1688-2	PH01C	Total/NA	Solid	Total BTEX	
890-1688-3	PH02	Total/NA	Solid	Total BTEX	
890-1688-4	PH02C	Total/NA	Solid	Total BTEX	
890-1688-5	PH03	Total/NA	Solid	Total BTEX	
890-1688-6	PH03C	Total/NA	Solid	Total BTEX	
890-1688-7	PH04B	Total/NA	Solid	Total BTEX	
890-1688-8	PH04C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	8015B NM	14331
890-1688-2	PH01C	Total/NA	Solid	8015B NM	14331
890-1688-3	PH02	Total/NA	Solid	8015B NM	14331
890-1688-4	PH02C	Total/NA	Solid	8015B NM	14331
890-1688-5	PH03	Total/NA	Solid	8015B NM	14331
890-1688-6	PH03C	Total/NA	Solid	8015B NM	14331

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

GC Semi VOA (Continued)

Analysis Batch: 14325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-7	PH04B	Total/NA	Solid	8015B NM	14331
890-1688-8	PH04C	Total/NA	Solid	8015B NM	14331
MB 880-14331/1-A	Method Blank	Total/NA	Solid	8015B NM	14331
LCS 880-14331/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14331
LCSD 880-14331/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14331
880-9100-A-41-G MS	Matrix Spike	Total/NA	Solid	8015B NM	14331
880-9100-A-41-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14331

Prep Batch: 14331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	8015NM Prep	
890-1688-2	PH01C	Total/NA	Solid	8015NM Prep	
890-1688-3	PH02	Total/NA	Solid	8015NM Prep	
890-1688-4	PH02C	Total/NA	Solid	8015NM Prep	
890-1688-5	PH03	Total/NA	Solid	8015NM Prep	
890-1688-6	PH03C	Total/NA	Solid	8015NM Prep	
890-1688-7	PH04B	Total/NA	Solid	8015NM Prep	
890-1688-8	PH04C	Total/NA	Solid	8015NM Prep	
MB 880-14331/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14331/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14331/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9100-A-41-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9100-A-41-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Total/NA	Solid	8015 NM	
890-1688-2	PH01C	Total/NA	Solid	8015 NM	

Analysis Batch: 14531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-3	PH02	Total/NA	Solid	8015 NM	
890-1688-4	PH02C	Total/NA	Solid	8015 NM	
890-1688-5	PH03	Total/NA	Solid	8015 NM	
890-1688-6	PH03C	Total/NA	Solid	8015 NM	
890-1688-7	PH04B	Total/NA	Solid	8015 NM	
890-1688-8	PH04C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Soluble	Solid	DI Leach	
890-1688-2	PH01C	Soluble	Solid	DI Leach	
890-1688-3	PH02	Soluble	Solid	DI Leach	
890-1688-4	PH02C	Soluble	Solid	DI Leach	
890-1688-5	PH03	Soluble	Solid	DI Leach	
890-1688-6	PH03C	Soluble	Solid	DI Leach	
890-1688-7	PH04B	Soluble	Solid	DI Leach	
890-1688-8	PH04C	Soluble	Solid	DI Leach	
MB 880-14384/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

HPLC/IC (Continued)

Leach Batch: 14384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-14384/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14384/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1687-A-22-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1687-A-22-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1688-1	PH01	Soluble	Solid	300.0	14384
890-1688-2	PH01C	Soluble	Solid	300.0	14384
890-1688-3	PH02	Soluble	Solid	300.0	14384
890-1688-4	PH02C	Soluble	Solid	300.0	14384
890-1688-5	PH03	Soluble	Solid	300.0	14384
890-1688-6	PH03C	Soluble	Solid	300.0	14384
890-1688-7	PH04B	Soluble	Solid	300.0	14384
890-1688-8	PH04C	Soluble	Solid	300.0	14384
MB 880-14384/1-A	Method Blank	Soluble	Solid	300.0	14384
LCS 880-14384/2-A	Lab Control Sample	Soluble	Solid	300.0	14384
LCSD 880-14384/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14384
890-1687-A-22-D MS	Matrix Spike	Soluble	Solid	300.0	14384
890-1687-A-22-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14384

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH01 — Lab Sample ID: 890-1688-1

Date Collected: 12/07/21 14:00 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 12:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14395	12/09/21 14:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 13:35	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		1	14419	12/10/21 16:59	CH	XEN MID

Client Sample ID: PH01C — Lab Sample ID: 890-1688-2

Date Collected: 12/07/21 14:15 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 13:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14395	12/09/21 14:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 13:56	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:19	CH	XEN MID

Client Sample ID: PH02 — Lab Sample ID: 890-1688-3

Date Collected: 12/07/21 14:20 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 13:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:26	CH	XEN MID

Client Sample ID: PH02C — Lab Sample ID: 890-1688-4

Date Collected: 12/07/21 14:35 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 13:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH02C — Lab Sample ID: 890-1688-4

Date Collected: 12/07/21 14:35 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:33	CH	XEN MID

Client Sample ID: PH03 — Lab Sample ID: 890-1688-5

Date Collected: 12/07/21 14:45 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 14:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 15:01	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:39	CH	XEN MID

Client Sample ID: PH03C — Lab Sample ID: 890-1688-6

Date Collected: 12/07/21 15:00 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 14:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:46	CH	XEN MID

Client Sample ID: PH04B — Lab Sample ID: 890-1688-7

Date Collected: 12/07/21 15:25 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 14:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 15:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Client Sample ID: PH04B — Lab Sample ID: 890-1688-7

Date Collected: 12/07/21 15:25 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		5	14419	12/10/21 17:53	CH	XEN MID

Client Sample ID: PH04C — Lab Sample ID: 890-1688-8

Date Collected: 12/07/21 15:30 **Matrix: Solid**
Date Received: 12/08/21 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14294	12/09/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14330	12/09/21 15:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14350	12/09/21 09:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14531	12/10/21 15:57	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14331	12/09/21 08:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14325	12/09/21 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			14384	12/09/21 13:43	CA	XEN MID
Soluble	Analysis	300.0		10	14419	12/10/21 17:59	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. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

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. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

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. Job ID: 890-1688-1
Project/Site: Nash Unit 043h SDG: 31403236.020.0129 task #10.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1688-1	PH01	Solid	12/07/21 14:00	12/08/21 11:25	1
890-1688-2	PH01C	Solid	12/07/21 14:15	12/08/21 11:25	4
890-1688-3	PH02	Solid	12/07/21 14:20	12/08/21 11:25	1
890-1688-4	PH02C	Solid	12/07/21 14:35	12/08/21 11:25	4
890-1688-5	PH03	Solid	12/07/21 14:45	12/08/21 11:25	1
890-1688-6	PH03C	Solid	12/07/21 15:00	12/08/21 11:25	4
890-1688-7	PH04B	Solid	12/07/21 15:25	12/08/21 11:25	3
890-1688-8	PH04C	Solid	12/07/21 15:30	12/08/21 11:25	4

Chain of Custody

XENCO LABORATORIES

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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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc.	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:	432.236.3849	Email:	Alexis.Castro@wsp.com; tacoma.morrissey@wsp.com

Work Order Comments

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

Project Name:	Nash Unit 043H	Turn Around	
Project Number:	31403236.020.0129 Task# 10.02	Routine	~~☑~~ 5D
P.O. Number:	CC: 1140771001	Rush:	24 HR
Sampler's Name:	Alexis Castro	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	4.0/3.8	Thermometer ID	
Received Intact:	(Yes) No	TNM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

890-1688 Chain of Custody

Work Order Notes

INC#: NAPP2128451743
API: 30-015-42206

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
PH01	S	12/07/2021	1400	1'	1	X	X	X	
PH01C	S	12/07/2021	1415	4'	1	X	X	X	
PH02	S	12/07/2021	1420	1'	1	X	X	X	
PH02C	S	12/07/2021	1435	4'	1	X	X	X	
PH03	S	12/07/2021	1445	1'	1	X	X	X	
PH03C	S	12/07/2021	1500	4'	1	X	X	X	
PH04B	S	12/07/2021	1525	3'	1	X	X	X	
PH04C	S	12/07/2021	1530	4'	1	X	X	X	

AC

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	12.8.21 1122	12/8/21@ 1125	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-537 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1688-1
Address: 1211 W Florida Ave	Due Date Requested: 12/10/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Nash Unit 043h	Project #: 89000004			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, 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/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH01 (890-1688-1)	12/7/21	14 00 Mountain		Solid			X	X	X	X	X	1	
PH01C (890-1688-2)	12/7/21	14 15 Mountain		Solid			X	X	X	X	X	1	
PH02 (890-1688-3)	12/7/21	14 20 Mountain		Solid			X	X	X	X	X	1	
PH02C (890-1688-4)	12/7/21	14 35 Mountain		Solid			X	X	X	X	X	1	
PH03 (890-1688-5)	12/7/21	14 45 Mountain		Solid			X	X	X	X	X	1	
PH03C (890-1688-6)	12/7/21	15 00 Mountain		Solid			X	X	X	X	X	1	
PH04B (890-1688-7)	12/7/21	15 25 Mountain		Solid			X	X	X	X	X	1	
PH04C (890-1688-8)	12/7/21	15 30 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 analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by: Cue Calp 12.5.21	Date/Time	Company	Received by: Jessica R	Date/Time: 12/9/21 12:05	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.9/3.0 10 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1688-1
SDG Number: 31403236.020.0129 task #10.02

Login Number: 1688
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: 890-1688-1
SDG Number: 31403236.020.0129 task #10.02

Login Number: 1688
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland
List Creation: 12/09/21 12:10 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1696-1
Laboratory SDG: 31403236.020.0129 Task# 10.02
Client Project/Site: Nash unit 043H

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
12/13/2021 4:37:45 PM

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

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

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

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Job ID: 890-1696-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1696-1

Receipt
The samples were received on 12/10/2021 11:21 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 1.2°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: BG03B (890-1696-11), BG03C (890-1696-12), BG04 (890-1696-13), BG04A (890-1696-14), BG04B (890-1696-15), BG04C (890-1696-16), BG05 (890-1696-17), BG05A (890-1696-18), BG05B (890-1696-19), BG05C (890-1696-20), (CCV 880-14591/2), (LCS 880-14524/1-A), (LCSD 880-14524/2-A), (MB 880-14524/5-A), (890-1696-A-11-A MS) and (890-1696-A-11-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 880-14598 and analytical batch 880-14592 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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14608 and analytical batch 880-14657 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14601 and analytical batch 880-14656 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01

Date Collected: 12/08/21 09:45
Date Received: 12/10/21 11:21
Sample Depth: 1

Lab Sample ID: 890-1696-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/13/21 07:30	12/13/21 12:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/21 07:30	12/13/21 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*12/13/21 07:30*	*12/13/21 12:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/13/21 07:30*	*12/13/21 12:54*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 10:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 10:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/13/21 08:30*	*12/13/21 10:25*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 10:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37000**	**F1**	249		mg/Kg			12/13/21 13:39	50

Client Sample ID: BG01A

Date Collected: 12/08/21 09:50
Date Received: 12/10/21 11:21
Sample Depth: 2

Lab Sample ID: 890-1696-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/21 07:30	12/13/21 13:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/21 07:30	12/13/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:15*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01A

Date Collected: 12/08/21 09:50
Date Received: 12/10/21 11:21
Sample Depth: 2

Lab Sample ID: 890-1696-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:15*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 11:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 11:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*12/13/21 08:30*	*12/13/21 11:28*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 11:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42300**		252		mg/Kg			12/13/21 11:55	50

Client Sample ID: BG01B

Date Collected: 12/08/21 10:00
Date Received: 12/10/21 11:21
Sample Depth: 3

Lab Sample ID: 890-1696-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 13:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 13:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 13:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/13/21 07:30	12/13/21 13:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 13:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/21 07:30	12/13/21 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:35*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:35*	*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			12/13/21 11:41	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 12:23	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01B
Lab Sample ID: 890-1696-3
Date Collected: 12/08/21 10:00 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 3

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		12/13/21 08:30	12/13/21 11:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 11:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/13/21 08:30*	*12/13/21 11:48*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 11:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27200**		249		mg/Kg			12/13/21 12:06	50

Client Sample ID: BG01C
Lab Sample ID: 890-1696-4
Date Collected: 12/08/21 10:15 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/13/21 07:30	12/13/21 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 13:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/21 07:30	12/13/21 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:55*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/13/21 07:30*	*12/13/21 13:55*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:09*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:09*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01C
Lab Sample ID: 890-1696-4
Date Collected: 12/08/21 10:15 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20800		248		mg/Kg			12/13/21 12:17	50

Client Sample ID: BG02
Lab Sample ID: 890-1696-5
Date Collected: 12/08/21 10:25 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 14:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 14:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 14:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/13/21 07:30	12/13/21 14:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:30	12/13/21 14:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/21 07:30	12/13/21 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*12/13/21 07:30*	*12/13/21 14:16*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/13/21 07:30*	*12/13/21 14:16*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/13/21 08:30	12/13/21 12:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/13/21 08:30	12/13/21 12:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/13/21 08:30	12/13/21 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:30*	*1*
o-Terphenyl	*82*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7900		50.0		mg/Kg			12/13/21 12:28	10

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG02A
Lab Sample ID: 890-1696-6
Date Collected: 12/08/21 10:30 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/13/21 07:30	12/13/21 14:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/13/21 07:30	12/13/21 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/13/21 07:30*	*12/13/21 14:36*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/13/21 07:30*	*12/13/21 14:36*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:50*	*1*
o-Terphenyl	*80*		*70 - 130*	*12/13/21 08:30*	*12/13/21 12:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3910**		49.6		mg/Kg			12/13/21 13:00	10

Client Sample ID: BG02B
Lab Sample ID: 890-1696-7
Date Collected: 12/08/21 10:35 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/13/21 07:30	12/13/21 14:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:30	12/13/21 14:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/13/21 07:30	12/13/21 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/13/21 07:30*	*12/13/21 14:57*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG02B

Date Collected: 12/08/21 10:35
Date Received: 12/10/21 11:21
Sample Depth: 3

Lab Sample ID: 890-1696-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/13/21 07:30*	*12/13/21 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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/13/21 08:30	12/13/21 13:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/13/21 08:30	12/13/21 13:11	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/13/21 08:30	12/13/21 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:11*	*1*
o-Terphenyl	*79*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4310**		101	mg/Kg			12/13/21 13:11	20

Client Sample ID: BG02C

Date Collected: 12/08/21 10:45
Date Received: 12/10/21 11:21
Sample Depth: 4

Lab Sample ID: 890-1696-8

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		12/13/21 07:30	12/13/21 15:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 15:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 15:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/13/21 07:30	12/13/21 15:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/13/21 07:30	12/13/21 15:17	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/13/21 07:30	12/13/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:17*	*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			12/13/21 11:41	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 12:23	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG02C

Lab Sample ID: 890-1696-8
Matrix: Solid
Date Collected: 12/08/21 10:45
Date Received: 12/10/21 11:21
Sample Depth: 4

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		12/13/21 08:30	12/13/21 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:31*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7840**		99.6		mg/Kg			12/13/21 13:22	20

Client Sample ID: BG03

Lab Sample ID: 890-1696-9
Matrix: Solid
Date Collected: 12/08/21 12:45
Date Received: 12/10/21 11:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 15:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/13/21 07:30	12/13/21 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 15:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/21 07:30	12/13/21 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:37*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:37*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:52*	*1*
o-Terphenyl	*81*		*70 - 130*	*12/13/21 08:30*	*12/13/21 13:52*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG03
Lab Sample ID: 890-1696-9
Date Collected: 12/08/21 12:45 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27600		248		mg/Kg			12/13/21 13:33	50

Client Sample ID: BG03A
Lab Sample ID: 890-1696-10
Date Collected: 12/08/21 12:50 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:30	12/13/21 15:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:30	12/13/21 15:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:30	12/13/21 15:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/13/21 07:30	12/13/21 15:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:30	12/13/21 15:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/21 07:30	12/13/21 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:58*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/13/21 07:30*	*12/13/21 15:58*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 14:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 14:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:30	12/13/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/13/21 08:30*	*12/13/21 14:13*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/13/21 08:30*	*12/13/21 14:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28100		250		mg/Kg			12/13/21 13:44	50

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG03B

Lab Sample ID: 890-1696-11
Matrix: Solid
Date Collected: 12/08/21 12:55
Date Received: 12/10/21 11:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		12/13/21 07:35	12/13/21 11:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/13/21 07:35	12/13/21 11:30	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		12/13/21 07:35	12/13/21 11:30	1
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.00397		mg/Kg		12/13/21 07:35	12/13/21 11:30	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		12/13/21 07:35	12/13/21 11:30	1
Xylenes, Total	<0.00397	U F1 F2	0.00397		mg/Kg		12/13/21 07:35	12/13/21 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 11:30*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/13/21 07:35*	*12/13/21 11:30*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		12/13/21 08:17	12/13/21 10:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		12/13/21 08:17	12/13/21 10:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/13/21 08:17*	*12/13/21 10:48*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/13/21 08:17*	*12/13/21 10:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25700**		250		mg/Kg			12/13/21 13:55	50

Client Sample ID: BG03C

Lab Sample ID: 890-1696-12
Matrix: Solid
Date Collected: 12/08/21 13:00
Date Received: 12/10/21 11:21
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/21 07:35	12/13/21 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/21 07:35	12/13/21 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 11:56*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG03C

Date Collected: 12/08/21 13:00
Date Received: 12/10/21 11:21
Sample Depth: 4

Lab Sample ID: 890-1696-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*12/13/21 07:35*	*12/13/21 11:56*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 11:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 11:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/13/21 08:17	12/13/21 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*12/13/21 08:17*	*12/13/21 11:49*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/13/21 08:17*	*12/13/21 11:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28100**		250	mg/Kg			12/13/21 14:27	50

Client Sample ID: BG04

Date Collected: 12/08/21 13:10
Date Received: 12/10/21 11:21
Sample Depth: 1

Lab Sample ID: 890-1696-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 12:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 12:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 12:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/13/21 07:35	12/13/21 12:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 12:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/13/21 07:35	12/13/21 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 12:23*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*12/13/21 07:35*	*12/13/21 12:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/13/21 11:41	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 12:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG04 Lab Sample ID: 890-1696-13

Date Collected: 12/08/21 13:10 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 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		12/13/21 08:17	12/13/21 12:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 12:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:10*	*1*
o-Terphenyl	*102*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7650**		49.7		mg/Kg			12/13/21 14:38	10

Client Sample ID: BG04A Lab Sample ID: 890-1696-14

Date Collected: 12/08/21 13:15 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:35	12/13/21 12:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:35	12/13/21 12:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:35	12/13/21 12:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/13/21 07:35	12/13/21 12:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/13/21 07:35	12/13/21 12:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/13/21 07:35	12/13/21 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 12:49*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*12/13/21 07:35*	*12/13/21 12:49*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 12:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 12:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:31*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:31*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG04A

Lab Sample ID: 890-1696-14
Matrix: Solid
Date Collected: 12/08/21 13:15
Date Received: 12/10/21 11:21
Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7870		49.5		mg/Kg			12/13/21 15:11	10

Client Sample ID: BG04B

Lab Sample ID: 890-1696-15
Matrix: Solid
Date Collected: 12/08/21 13:20
Date Received: 12/10/21 11:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 13:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 13:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 13:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/13/21 07:35	12/13/21 13:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 13:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/21 07:35	12/13/21 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 13:16*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*12/13/21 07:35*	*12/13/21 13:16*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/13/21 08:17	12/13/21 12:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/13/21 08:17	12/13/21 12:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/13/21 08:17	12/13/21 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:51*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/13/21 08:17*	*12/13/21 12:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26500		249		mg/Kg			12/13/21 15:22	50

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG04C

Date Collected: 12/08/21 13:25
Date Received: 12/10/21 11:21
Sample Depth: 4

Lab Sample ID: 890-1696-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 13:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 13:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 13:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/13/21 07:35	12/13/21 13:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 13:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/13/21 07:35	12/13/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 13:42*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*12/13/21 07:35*	*12/13/21 13:42*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 13:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 13:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:11*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32000**		252		mg/Kg			12/13/21 15:33	50

Client Sample ID: BG05

Date Collected: 12/08/21 13:35
Date Received: 12/10/21 11:21
Sample Depth: 1

Lab Sample ID: 890-1696-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 14:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 14:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 14:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/13/21 07:35	12/13/21 14:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 14:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/13/21 07:35	12/13/21 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 14:09*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG05

Date Collected: 12/08/21 13:35
Date Received: 12/10/21 11:21
Sample Depth: 1

Lab Sample ID: 890-1696-17
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*12/13/21 07:35*	*12/13/21 14:09*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 13:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 13:32	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/13/21 08:17	12/13/21 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:32*	*1*
o-Terphenyl	*110*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20700**		249	mg/Kg			12/13/21 15:44	50

Client Sample ID: BG05A

Date Collected: 12/08/21 13:40
Date Received: 12/10/21 11:21
Sample Depth: 2

Lab Sample ID: 890-1696-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 14:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 14:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 14:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/13/21 07:35	12/13/21 14:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/13/21 07:35	12/13/21 14:35	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/13/21 07:35	12/13/21 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 14:35*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*12/13/21 07:35*	*12/13/21 14:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/13/21 11:41	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 12:23	1

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG05A
Lab Sample ID: 890-1696-18
Date Collected: 12/08/21 13:40 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 13:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 13:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:53*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/13/21 08:17*	*12/13/21 13:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9240**		99.0		mg/Kg			12/13/21 15:54	20

Client Sample ID: BG05B
Lab Sample ID: 890-1696-19
Date Collected: 12/08/21 13:45 **Matrix: Solid**
Date Received: 12/10/21 11:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:35	12/13/21 15:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:35	12/13/21 15:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:35	12/13/21 15:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/13/21 07:35	12/13/21 15:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/13/21 07:35	12/13/21 15:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/13/21 07:35	12/13/21 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 15:02*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*12/13/21 07:35*	*12/13/21 15:02*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/13/21 08:17*	*12/13/21 14:14*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/13/21 08:17*	*12/13/21 14:14*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG05B

Lab Sample ID: 890-1696-19
Matrix: Solid
Date Collected: 12/08/21 13:45
Date Received: 12/10/21 11:21
Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18200		250		mg/Kg			12/13/21 16:05	50

Client Sample ID: BG05C

Lab Sample ID: 890-1696-20
Matrix: Solid
Date Collected: 12/08/21 13:50
Date Received: 12/10/21 11:21
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 15:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 15:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 15:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/13/21 07:35	12/13/21 15:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/13/21 07:35	12/13/21 15:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/13/21 07:35	12/13/21 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 15:28*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/13/21 07:35*	*12/13/21 15:28*	*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			12/13/21 11:41	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 12:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 14:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 14:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/13/21 08:17	12/13/21 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*12/13/21 08:17*	*12/13/21 14:34*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/13/21 08:17*	*12/13/21 14:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15900		100		mg/Kg			12/13/21 16:16	20

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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)
890-1696-1	BG01	122	104
890-1696-1 MS	BG01	109	97
890-1696-1 MSD	BG01	117	98
890-1696-2	BG01A	118	93
890-1696-3	BG01B	125	105
890-1696-4	BG01C	125	96
890-1696-5	BG02	126	97
890-1696-6	BG02A	115	100
890-1696-7	BG02B	125	100
890-1696-8	BG02C	110	90
890-1696-9	BG03	121	102
890-1696-10	BG03A	115	91
890-1696-11	BG03B	183 S1+	105
890-1696-11 MS	BG03B	195 S1+	140 S1+
890-1696-11 MSD	BG03B	214 S1+	145 S1+
890-1696-12	BG03C	177 S1+	129
890-1696-13	BG04	138 S1+	121
890-1696-14	BG04A	165 S1+	130
890-1696-15	BG04B	149 S1+	127
890-1696-16	BG04C	160 S1+	127
890-1696-17	BG05	156 S1+	127
890-1696-18	BG05A	161 S1+	126
890-1696-19	BG05B	157 S1+	110
890-1696-20	BG05C	137 S1+	106
LCS 880-14520/1-A	Lab Control Sample	102	91
LCS 880-14524/1-A	Lab Control Sample	156 S1+	90
LCSD 880-14520/2-A	Lab Control Sample Dup	109	93
LCSD 880-14524/2-A	Lab Control Sample Dup	170 S1+	116
MB 880-14520/5-A	Method Blank	124	104
MB 880-14524/5-A	Method Blank	106	149 S1+

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)
890-1696-1	BG01	87	83
890-1696-1 MS	BG01	86	83
890-1696-1 MSD	BG01	80	82
890-1696-2	BG01A	85	83
890-1696-3	BG01B	85	83
890-1696-4	BG01C	83	80
890-1696-5	BG02	85	82
890-1696-6	BG02A	82	80
890-1696-7	BG02B	81	79

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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)
890-1696-8	BG02C	86	81
890-1696-9	BG03	83	81
890-1696-10	BG03A	84	83
890-1696-11	BG03B	84	95
890-1696-11 MS	BG03B	85	82
890-1696-11 MSD	BG03B	86	85
890-1696-12	BG03C	86	96
890-1696-13	BG04	95	102
890-1696-14	BG04A	96	105
890-1696-15	BG04B	89	100
890-1696-16	BG04C	97	105
890-1696-17	BG05	102	110
890-1696-18	BG05A	96	103
890-1696-19	BG05B	97	104
890-1696-20	BG05C	79	87
LCS 880-14598/2-A	Lab Control Sample	110	110
LCSD 880-14598/3-A	Lab Control Sample Dup	107	113
MB 880-14598/1-A	Method Blank	104	119

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 880-14600/2-A	Lab Control Sample	91	89
LCSD 880-14600/3-A	Lab Control Sample Dup	101	105
MB 880-14600/1-A	Method Blank	115	106

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14520/5-A
Matrix: Solid
Analysis Batch: 14590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14520

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/21 07:30	12/13/21 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:30	12/13/21 12:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/21 07:30	12/13/21 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*12/13/21 07:30*	*12/13/21 12:25*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*12/13/21 07:30*	*12/13/21 12:25*	*1*

Lab Sample ID: LCS 880-14520/1-A
Matrix: Solid
Analysis Batch: 14590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08854		mg/Kg		89	70 - 130		
Toluene			0.100	0.09003		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09281		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1840		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.08726		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-14520/2-A
Matrix: Solid
Analysis Batch: 14590

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 14520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09866		mg/Kg		99	70 - 130	11	35
Toluene			0.100	0.09592		mg/Kg		96	70 - 130	6	35
Ethylbenzene			0.100	0.09757		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1947		mg/Kg		97	70 - 130	6	35
o-Xylene			0.100	0.09301		mg/Kg		93	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1696-1 MSD
Matrix: Solid
Analysis Batch: 14590

Client Sample ID: BG01
Prep Type: Total/NA
Prep Batch: 14520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08642		mg/Kg					
Toluene	<0.00200	U	0.0990	0.08778		mg/Kg					

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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

Lab Sample ID: 890-1696-1 MSD **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14590 **Prep Batch: 14520**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00200	U	0.0990	0.09162		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1793		mg/Kg					
o-Xylene	<0.00200	U	0.0990	0.08627		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-14524/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/13/21 07:35	12/13/21 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/13/21 07:35	12/13/21 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/13/21 07:35	12/13/21 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/13/21 07:35*	*12/13/21 11:04*	*1*
1,4-Difluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*12/13/21 07:35*	*12/13/21 11:04*	*1*

Lab Sample ID: LCS 880-14524/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1060		mg/Kg		106	70 - 130		
Toluene			0.100	0.1032		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2314		mg/Kg		116	70 - 130		
o-Xylene			0.100	0.1131		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-14524/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1292		mg/Kg		129	70 - 130	20	35
Toluene			0.100	0.1146		mg/Kg		115	70 - 130	10	35
Ethylbenzene			0.100	0.1151		mg/Kg		115	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2518		mg/Kg		126	70 - 130	8	35

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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

Lab Sample ID: LCSD 880-14524/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			0.100	0.1286		mg/Kg		129	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 890-1696-11 MS **Client Sample ID: BG03B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.100	0.1432	F1	mg/Kg		143	70 - 130
Toluene	<0.00198	U	0.100	0.1307		mg/Kg		130	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.1197		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.201	0.02782	F1	mg/Kg		13	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.1425	F1	mg/Kg		142	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*140*	*S1+*	*70 - 130*

Lab Sample ID: 890-1696-11 MSD **Client Sample ID: BG03B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14591 **Prep Batch: 14524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0994	0.1373	F1	mg/Kg		138	70 - 130	4	35
Toluene	<0.00198	U	0.0994	0.1281		mg/Kg		129	70 - 130	2	35
Ethylbenzene	<0.00198	U F1	0.0994	0.1314	F1	mg/Kg		132	70 - 130	9	35
m-Xylene & p-Xylene	<0.00397	U F1 F2	0.199	0.2887	F1 F2	mg/Kg		145	70 - 130	165	35
o-Xylene	<0.00198	U F1	0.0994	0.1439	F1	mg/Kg		145	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*145*	*S1+*	*70 - 130*

Lab Sample ID: 890-1696-1 MS **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14590

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

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

Lab Sample ID: MB 880-14598/1-A
Matrix: Solid
Analysis Batch: 14592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14598

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		12/13/21 08:17	12/13/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:17	12/13/21 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/13/21 08:17*	*12/13/21 09:22*	*1*
o-Terphenyl	*119*		*70 - 130*	*12/13/21 08:17*	*12/13/21 09:22*	*1*

Lab Sample ID: LCS 880-14598/2-A
Matrix: Solid
Analysis Batch: 14592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14598

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	925.0		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: LCSD 880-14598/3-A
Matrix: Solid
Analysis Batch: 14592

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 14598

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	857.8		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	995.9		mg/Kg		100	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 890-1696-11 MS
Matrix: Solid
Analysis Batch: 14592

Client Sample ID: BG03B
Prep Type: Total/NA
Prep Batch: 14598

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 F1	997	1321	F1	mg/Kg		132	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1310	F1	mg/Kg		131	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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

Lab Sample ID: 890-1696-11 MS **Client Sample ID: BG03B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14592 **Prep Batch: 14598**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 890-1696-11 MSD **Client Sample ID: BG03B**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14592 **Prep Batch: 14598**

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	1324	F1	mg/Kg		132	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1355	F1	mg/Kg		136	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: MB 880-14600/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14597 **Prep Batch: 14600**

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		12/13/21 08:30	12/13/21 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 09:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/21 08:30	12/13/21 09:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	12/13/21 08:30	12/13/21 09:22	1
o-Terphenyl	106		70 - 130	12/13/21 08:30	12/13/21 09:22	1

Lab Sample ID: LCS 880-14600/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14597 **Prep Batch: 14600**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	831.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	788.6		mg/Kg		79	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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

Lab Sample ID: LCSD 880-14600/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14597 **Prep Batch: 14600**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	849.9		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	849.6		mg/Kg		85	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-1696-1 MS **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14597 **Prep Batch: 14600**

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	997	1130		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1264		mg/Kg		127	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 890-1696-1 MSD **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 14597 **Prep Batch: 14600**

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	1132		mg/Kg		112	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1267		mg/Kg		127	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14601/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14656

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/13/21 10:10	1

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14601/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	253.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-14601/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.5		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 890-1696-1 MS — **Client Sample ID: BG01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	35000	F1	12500	42950	F1	mg/Kg		64	90 - 110		

Lab Sample ID: 890-1696-1 MSD — **Client Sample ID: BG01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	35000	F1	12500	40970	F1	mg/Kg		48	90 - 110	5	20

Lab Sample ID: 890-1696-11 MS — **Client Sample ID: BG03B**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	25700		12500	37230		mg/Kg		92	90 - 110		

Lab Sample ID: 890-1696-11 MSD — **Client Sample ID: BG03B**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14656

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25700		12500	38140		mg/Kg		99	90 - 110	2	20

Lab Sample ID: MB 880-14608/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14657

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/13/21 10:03	1

Lab Sample ID: LCS 880-14608/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 14657

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	267.0		mg/Kg		107	90 - 110		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-14608/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14657

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	266.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1696-1 MS **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	37000	F1	12400	45540	F1	mg/Kg		69	90 - 110		

Lab Sample ID: 890-1696-1 MSD **Client Sample ID: BG01**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 14657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	37000	F1	12400	51130	F1	mg/Kg		114	90 - 110	12	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

GC VOA

Prep Batch: 14520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	5035	
890-1696-2	BG01A	Total/NA	Solid	5035	
890-1696-3	BG01B	Total/NA	Solid	5035	
890-1696-4	BG01C	Total/NA	Solid	5035	
890-1696-5	BG02	Total/NA	Solid	5035	
890-1696-6	BG02A	Total/NA	Solid	5035	
890-1696-7	BG02B	Total/NA	Solid	5035	
890-1696-8	BG02C	Total/NA	Solid	5035	
890-1696-9	BG03	Total/NA	Solid	5035	
890-1696-10	BG03A	Total/NA	Solid	5035	
MB 880-14520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14520/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1696-1 MSD	BG01	Total/NA	Solid	5035	

Prep Batch: 14524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-11	BG03B	Total/NA	Solid	5035	
890-1696-12	BG03C	Total/NA	Solid	5035	
890-1696-13	BG04	Total/NA	Solid	5035	
890-1696-14	BG04A	Total/NA	Solid	5035	
890-1696-15	BG04B	Total/NA	Solid	5035	
890-1696-16	BG04C	Total/NA	Solid	5035	
890-1696-17	BG05	Total/NA	Solid	5035	
890-1696-18	BG05A	Total/NA	Solid	5035	
890-1696-19	BG05B	Total/NA	Solid	5035	
890-1696-20	BG05C	Total/NA	Solid	5035	
MB 880-14524/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14524/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14524/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1696-11 MS	BG03B	Total/NA	Solid	5035	
890-1696-11 MSD	BG03B	Total/NA	Solid	5035	

Analysis Batch: 14590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	8021B	14520
890-1696-2	BG01A	Total/NA	Solid	8021B	14520
890-1696-3	BG01B	Total/NA	Solid	8021B	14520
890-1696-4	BG01C	Total/NA	Solid	8021B	14520
890-1696-5	BG02	Total/NA	Solid	8021B	14520
890-1696-6	BG02A	Total/NA	Solid	8021B	14520
890-1696-7	BG02B	Total/NA	Solid	8021B	14520
890-1696-8	BG02C	Total/NA	Solid	8021B	14520
890-1696-9	BG03	Total/NA	Solid	8021B	14520
890-1696-10	BG03A	Total/NA	Solid	8021B	14520
MB 880-14520/5-A	Method Blank	Total/NA	Solid	8021B	14520
LCS 880-14520/1-A	Lab Control Sample	Total/NA	Solid	8021B	14520
LCSD 880-14520/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14520
890-1696-1 MS	BG01	Total/NA	Solid	8021B	
890-1696-1 MSD	BG01	Total/NA	Solid	8021B	14520

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

GC VOA

Analysis Batch: 14591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-11	BG03B	Total/NA	Solid	8021B	14524
890-1696-12	BG03C	Total/NA	Solid	8021B	14524
890-1696-13	BG04	Total/NA	Solid	8021B	14524
890-1696-14	BG04A	Total/NA	Solid	8021B	14524
890-1696-15	BG04B	Total/NA	Solid	8021B	14524
890-1696-16	BG04C	Total/NA	Solid	8021B	14524
890-1696-17	BG05	Total/NA	Solid	8021B	14524
890-1696-18	BG05A	Total/NA	Solid	8021B	14524
890-1696-19	BG05B	Total/NA	Solid	8021B	14524
890-1696-20	BG05C	Total/NA	Solid	8021B	14524
MB 880-14524/5-A	Method Blank	Total/NA	Solid	8021B	14524
LCS 880-14524/1-A	Lab Control Sample	Total/NA	Solid	8021B	14524
LCSD 880-14524/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14524
890-1696-11 MS	BG03B	Total/NA	Solid	8021B	14524
890-1696-11 MSD	BG03B	Total/NA	Solid	8021B	14524

Analysis Batch: 14648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	Total BTEX	
890-1696-2	BG01A	Total/NA	Solid	Total BTEX	
890-1696-3	BG01B	Total/NA	Solid	Total BTEX	
890-1696-4	BG01C	Total/NA	Solid	Total BTEX	
890-1696-5	BG02	Total/NA	Solid	Total BTEX	
890-1696-6	BG02A	Total/NA	Solid	Total BTEX	
890-1696-7	BG02B	Total/NA	Solid	Total BTEX	
890-1696-8	BG02C	Total/NA	Solid	Total BTEX	
890-1696-9	BG03	Total/NA	Solid	Total BTEX	
890-1696-10	BG03A	Total/NA	Solid	Total BTEX	
890-1696-11	BG03B	Total/NA	Solid	Total BTEX	
890-1696-12	BG03C	Total/NA	Solid	Total BTEX	
890-1696-13	BG04	Total/NA	Solid	Total BTEX	
890-1696-14	BG04A	Total/NA	Solid	Total BTEX	
890-1696-15	BG04B	Total/NA	Solid	Total BTEX	
890-1696-16	BG04C	Total/NA	Solid	Total BTEX	
890-1696-17	BG05	Total/NA	Solid	Total BTEX	
890-1696-18	BG05A	Total/NA	Solid	Total BTEX	
890-1696-19	BG05B	Total/NA	Solid	Total BTEX	
890-1696-20	BG05C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-11	BG03B	Total/NA	Solid	8015B NM	14598
890-1696-12	BG03C	Total/NA	Solid	8015B NM	14598
890-1696-13	BG04	Total/NA	Solid	8015B NM	14598
890-1696-14	BG04A	Total/NA	Solid	8015B NM	14598
890-1696-15	BG04B	Total/NA	Solid	8015B NM	14598
890-1696-16	BG04C	Total/NA	Solid	8015B NM	14598
890-1696-17	BG05	Total/NA	Solid	8015B NM	14598
890-1696-18	BG05A	Total/NA	Solid	8015B NM	14598

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

GC Semi VOA (Continued)

Analysis Batch: 14592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-19	BG05B	Total/NA	Solid	8015B NM	14598
890-1696-20	BG05C	Total/NA	Solid	8015B NM	14598
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015B NM	14598
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14598
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14598
890-1696-11 MS	BG03B	Total/NA	Solid	8015B NM	14598
890-1696-11 MSD	BG03B	Total/NA	Solid	8015B NM	14598

Analysis Batch: 14597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	8015B NM	14600
890-1696-2	BG01A	Total/NA	Solid	8015B NM	14600
890-1696-3	BG01B	Total/NA	Solid	8015B NM	14600
890-1696-4	BG01C	Total/NA	Solid	8015B NM	14600
890-1696-5	BG02	Total/NA	Solid	8015B NM	14600
890-1696-6	BG02A	Total/NA	Solid	8015B NM	14600
890-1696-7	BG02B	Total/NA	Solid	8015B NM	14600
890-1696-8	BG02C	Total/NA	Solid	8015B NM	14600
890-1696-9	BG03	Total/NA	Solid	8015B NM	14600
890-1696-10	BG03A	Total/NA	Solid	8015B NM	14600
MB 880-14600/1-A	Method Blank	Total/NA	Solid	8015B NM	14600
LCS 880-14600/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14600
LCSD 880-14600/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14600
890-1696-1 MS	BG01	Total/NA	Solid	8015B NM	14600
890-1696-1 MSD	BG01	Total/NA	Solid	8015B NM	14600

Prep Batch: 14598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-11	BG03B	Total/NA	Solid	8015NM Prep	
890-1696-12	BG03C	Total/NA	Solid	8015NM Prep	
890-1696-13	BG04	Total/NA	Solid	8015NM Prep	
890-1696-14	BG04A	Total/NA	Solid	8015NM Prep	
890-1696-15	BG04B	Total/NA	Solid	8015NM Prep	
890-1696-16	BG04C	Total/NA	Solid	8015NM Prep	
890-1696-17	BG05	Total/NA	Solid	8015NM Prep	
890-1696-18	BG05A	Total/NA	Solid	8015NM Prep	
890-1696-19	BG05B	Total/NA	Solid	8015NM Prep	
890-1696-20	BG05C	Total/NA	Solid	8015NM Prep	
MB 880-14598/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14598/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14598/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1696-11 MS	BG03B	Total/NA	Solid	8015NM Prep	
890-1696-11 MSD	BG03B	Total/NA	Solid	8015NM Prep	

Prep Batch: 14600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	8015NM Prep	
890-1696-2	BG01A	Total/NA	Solid	8015NM Prep	
890-1696-3	BG01B	Total/NA	Solid	8015NM Prep	
890-1696-4	BG01C	Total/NA	Solid	8015NM Prep	
890-1696-5	BG02	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

GC Semi VOA (Continued)

Prep Batch: 14600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-6	BG02A	Total/NA	Solid	8015NM Prep	
890-1696-7	BG02B	Total/NA	Solid	8015NM Prep	
890-1696-8	BG02C	Total/NA	Solid	8015NM Prep	
890-1696-9	BG03	Total/NA	Solid	8015NM Prep	
890-1696-10	BG03A	Total/NA	Solid	8015NM Prep	
MB 880-14600/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14600/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14600/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1696-1 MS	BG01	Total/NA	Solid	8015NM Prep	
890-1696-1 MSD	BG01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Total/NA	Solid	8015 NM	
890-1696-2	BG01A	Total/NA	Solid	8015 NM	
890-1696-3	BG01B	Total/NA	Solid	8015 NM	
890-1696-4	BG01C	Total/NA	Solid	8015 NM	
890-1696-5	BG02	Total/NA	Solid	8015 NM	
890-1696-6	BG02A	Total/NA	Solid	8015 NM	
890-1696-7	BG02B	Total/NA	Solid	8015 NM	
890-1696-8	BG02C	Total/NA	Solid	8015 NM	
890-1696-9	BG03	Total/NA	Solid	8015 NM	
890-1696-10	BG03A	Total/NA	Solid	8015 NM	
890-1696-11	BG03B	Total/NA	Solid	8015 NM	
890-1696-12	BG03C	Total/NA	Solid	8015 NM	
890-1696-13	BG04	Total/NA	Solid	8015 NM	
890-1696-14	BG04A	Total/NA	Solid	8015 NM	
890-1696-15	BG04B	Total/NA	Solid	8015 NM	
890-1696-16	BG04C	Total/NA	Solid	8015 NM	
890-1696-17	BG05	Total/NA	Solid	8015 NM	
890-1696-18	BG05A	Total/NA	Solid	8015 NM	
890-1696-19	BG05B	Total/NA	Solid	8015 NM	
890-1696-20	BG05C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-2	BG01A	Soluble	Solid	DI Leach	
890-1696-3	BG01B	Soluble	Solid	DI Leach	
890-1696-4	BG01C	Soluble	Solid	DI Leach	
890-1696-5	BG02	Soluble	Solid	DI Leach	
890-1696-6	BG02A	Soluble	Solid	DI Leach	
890-1696-7	BG02B	Soluble	Solid	DI Leach	
890-1696-8	BG02C	Soluble	Solid	DI Leach	
890-1696-9	BG03	Soluble	Solid	DI Leach	
890-1696-10	BG03A	Soluble	Solid	DI Leach	
890-1696-11	BG03B	Soluble	Solid	DI Leach	
890-1696-12	BG03C	Soluble	Solid	DI Leach	
890-1696-13	BG04	Soluble	Solid	DI Leach	
890-1696-14	BG04A	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

HPLC/IC (Continued)

Leach Batch: 14601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-15	BG04B	Soluble	Solid	DI Leach	
890-1696-16	BG04C	Soluble	Solid	DI Leach	
890-1696-17	BG05	Soluble	Solid	DI Leach	
890-1696-18	BG05A	Soluble	Solid	DI Leach	
890-1696-19	BG05B	Soluble	Solid	DI Leach	
890-1696-20	BG05C	Soluble	Solid	DI Leach	
MB 880-14601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1696-1 MS	BG01	Soluble	Solid	DI Leach	
890-1696-1 MSD	BG01	Soluble	Solid	DI Leach	
890-1696-11 MS	BG03B	Soluble	Solid	DI Leach	
890-1696-11 MSD	BG03B	Soluble	Solid	DI Leach	

Leach Batch: 14608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Soluble	Solid	DI Leach	
MB 880-14608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1696-1 MS	BG01	Soluble	Solid	DI Leach	
890-1696-1 MSD	BG01	Soluble	Solid	DI Leach	

Analysis Batch: 14656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-2	BG01A	Soluble	Solid	300.0	14601
890-1696-3	BG01B	Soluble	Solid	300.0	14601
890-1696-4	BG01C	Soluble	Solid	300.0	14601
890-1696-5	BG02	Soluble	Solid	300.0	14601
890-1696-6	BG02A	Soluble	Solid	300.0	14601
890-1696-7	BG02B	Soluble	Solid	300.0	14601
890-1696-8	BG02C	Soluble	Solid	300.0	14601
890-1696-9	BG03	Soluble	Solid	300.0	14601
890-1696-10	BG03A	Soluble	Solid	300.0	14601
890-1696-11	BG03B	Soluble	Solid	300.0	14601
890-1696-12	BG03C	Soluble	Solid	300.0	14601
890-1696-13	BG04	Soluble	Solid	300.0	14601
890-1696-14	BG04A	Soluble	Solid	300.0	14601
890-1696-15	BG04B	Soluble	Solid	300.0	14601
890-1696-16	BG04C	Soluble	Solid	300.0	14601
890-1696-17	BG05	Soluble	Solid	300.0	14601
890-1696-18	BG05A	Soluble	Solid	300.0	14601
890-1696-19	BG05B	Soluble	Solid	300.0	14601
890-1696-20	BG05C	Soluble	Solid	300.0	14601
MB 880-14601/1-A	Method Blank	Soluble	Solid	300.0	14601
LCS 880-14601/2-A	Lab Control Sample	Soluble	Solid	300.0	14601
LCSD 880-14601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14601
890-1696-1 MS	BG01	Soluble	Solid	300.0	14601
890-1696-1 MSD	BG01	Soluble	Solid	300.0	14601
890-1696-11 MS	BG03B	Soluble	Solid	300.0	14601
890-1696-11 MSD	BG03B	Soluble	Solid	300.0	14601

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

HPLC/IC

Analysis Batch: 14657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1696-1	BG01	Soluble	Solid	300.0	14608
MB 880-14608/1-A	Method Blank	Soluble	Solid	300.0	14608
LCS 880-14608/2-A	Lab Control Sample	Soluble	Solid	300.0	14608
LCSD 880-14608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14608
890-1696-1 MS	BG01	Soluble	Solid	300.0	14608
890-1696-1 MSD	BG01	Soluble	Solid	300.0	14608

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01 — Lab Sample ID: 890-1696-1

Date Collected: 12/08/21 09:45 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 12:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 10:25	AJ	XEN MID
Soluble	Leach	DI Leach			14608	12/13/21 09:14	CH	XEN MID
Soluble	Analysis	300.0		50	14657	12/13/21 13:39	CH	XEN MID

Client Sample ID: BG01A — Lab Sample ID: 890-1696-2

Date Collected: 12/08/21 09:50 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 13:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 11:28	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 11:55	CH	XEN MID

Client Sample ID: BG01B — Lab Sample ID: 890-1696-3

Date Collected: 12/08/21 10:00 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 13:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 11:48	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 12:06	CH	XEN MID

Client Sample ID: BG01C — Lab Sample ID: 890-1696-4

Date Collected: 12/08/21 10:15 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 13:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG01C — Lab Sample ID: 890-1696-4

Date Collected: 12/08/21 10:15 **Matrix: Solid**
Date Received: 12/10/21 11:21

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 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 12:09	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 12:17	CH	XEN MID

Client Sample ID: BG02 — Lab Sample ID: 890-1696-5

Date Collected: 12/08/21 10:25 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 14:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 12:30	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		10	14656	12/13/21 12:28	CH	XEN MID

Client Sample ID: BG02A — Lab Sample ID: 890-1696-6

Date Collected: 12/08/21 10:30 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 14:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 12:50	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		10	14656	12/13/21 13:00	CH	XEN MID

Client Sample ID: BG02B — Lab Sample ID: 890-1696-7

Date Collected: 12/08/21 10:35 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 14:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 13:11	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG02B — Lab Sample ID: 890-1696-7

Date Collected: 12/08/21 10:35 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		20	14656	12/13/21 13:11	CH	XEN MID

Client Sample ID: BG02C — Lab Sample ID: 890-1696-8

Date Collected: 12/08/21 10:45 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 15:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		20	14656	12/13/21 13:22	CH	XEN MID

Client Sample ID: BG03 — Lab Sample ID: 890-1696-9

Date Collected: 12/08/21 12:45 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 15:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 13:33	CH	XEN MID

Client Sample ID: BG03A — Lab Sample ID: 890-1696-10

Date Collected: 12/08/21 12:50 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14520	12/13/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	14590	12/13/21 15:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14600	12/13/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14597	12/13/21 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 13:44	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG03B — Lab Sample ID: 890-1696-11

Date Collected: 12/08/21 12:55 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 11:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 10:48	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 13:55	CH	XEN MID

Client Sample ID: BG03C — Lab Sample ID: 890-1696-12

Date Collected: 12/08/21 13:00 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 11:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 11:49	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 14:27	CH	XEN MID

Client Sample ID: BG04 — Lab Sample ID: 890-1696-13

Date Collected: 12/08/21 13:10 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 12:10	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		10	14656	12/13/21 14:38	CH	XEN MID

Client Sample ID: BG04A — Lab Sample ID: 890-1696-14

Date Collected: 12/08/21 13:15 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 12:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG04A — Lab Sample ID: 890-1696-14

Date Collected: 12/08/21 13:15 **Matrix: Solid**
Date Received: 12/10/21 11:21

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 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 12:31	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		10	14656	12/13/21 15:11	CH	XEN MID

Client Sample ID: BG04B — Lab Sample ID: 890-1696-15

Date Collected: 12/08/21 13:20 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 12:51	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 15:22	CH	XEN MID

Client Sample ID: BG04C — Lab Sample ID: 890-1696-16

Date Collected: 12/08/21 13:25 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 13:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 13:11	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 15:33	CH	XEN MID

Client Sample ID: BG05 — Lab Sample ID: 890-1696-17

Date Collected: 12/08/21 13:35 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 14:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 13:32	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

Client Sample ID: BG05 Lab Sample ID: 890-1696-17

Date Collected: 12/08/21 13:35 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 15:44	CH	XEN MID

Client Sample ID: BG05A Lab Sample ID: 890-1696-18

Date Collected: 12/08/21 13:40 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 14:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		20	14656	12/13/21 15:54	CH	XEN MID

Client Sample ID: BG05B Lab Sample ID: 890-1696-19

Date Collected: 12/08/21 13:45 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 15:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		50	14656	12/13/21 16:05	CH	XEN MID

Client Sample ID: BG05C Lab Sample ID: 890-1696-20

Date Collected: 12/08/21 13:50 **Matrix: Solid**
Date Received: 12/10/21 11:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14524	12/13/21 07:35	KL	XEN MID
Total/NA	Analysis	8021B		1	14591	12/13/21 15:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	14648	12/13/21 11:41	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14598	12/13/21 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14592	12/13/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			14601	12/13/21 09:02	CH	XEN MID
Soluble	Analysis	300.0		20	14656	12/13/21 16:16	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Nash unit 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

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. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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. Job ID: 890-1696-1
Project/Site: Nash unit 043H SDG: 31403236.020.0129 Task# 10.02

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 043H

Job ID: 890-1696-1
SDG: 31403236.020.0129 Task# 10.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1696-1	BG01	Solid	12/08/21 09:45	12/10/21 11:21	1
890-1696-2	BG01A	Solid	12/08/21 09:50	12/10/21 11:21	2
890-1696-3	BG01B	Solid	12/08/21 10:00	12/10/21 11:21	3
890-1696-4	BG01C	Solid	12/08/21 10:15	12/10/21 11:21	4
890-1696-5	BG02	Solid	12/08/21 10:25	12/10/21 11:21	1
890-1696-6	BG02A	Solid	12/08/21 10:30	12/10/21 11:21	2
890-1696-7	BG02B	Solid	12/08/21 10:35	12/10/21 11:21	3
890-1696-8	BG02C	Solid	12/08/21 10:45	12/10/21 11:21	4
890-1696-9	BG03	Solid	12/08/21 12:45	12/10/21 11:21	1
890-1696-10	BG03A	Solid	12/08/21 12:50	12/10/21 11:21	2
890-1696-11	BG03B	Solid	12/08/21 12:55	12/10/21 11:21	3
890-1696-12	BG03C	Solid	12/08/21 13:00	12/10/21 11:21	4
890-1696-13	BG04	Solid	12/08/21 13:10	12/10/21 11:21	1
890-1696-14	BG04A	Solid	12/08/21 13:15	12/10/21 11:21	2
890-1696-15	BG04B	Solid	12/08/21 13:20	12/10/21 11:21	3
890-1696-16	BG04C	Solid	12/08/21 13:25	12/10/21 11:21	4
890-1696-17	BG05	Solid	12/08/21 13:35	12/10/21 11:21	1
890-1696-18	BG05A	Solid	12/08/21 13:40	12/10/21 11:21	2
890-1696-19	BG05B	Solid	12/08/21 13:45	12/10/21 11:21	3
890-1696-20	BG05C	Solid	12/08/21 13:50	12/10/21 11:21	4

Chain of Custody

XENCO LABORATORIES

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: _____

www.xenco.com Page 1 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc.	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:	432.236.3849	Email:	Alexis.Castro@wsp.com; tacoma.morrissey@wsp.com

Work Order Comments

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

Project Name:	Nash Unit 043H	Turn Around	
Project Number:	31403236.020.0129 Task# 10.02	Routine ☐	
P.O. Number:	CC: 1140771001	Rush: 24hr	
Sampler's Name:	Alexis Castro	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1.4 / 1.2	Thermometer ID		
Received Intact:	Yes No	T-NM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

INC#: NAPP2128451743
API: 30-015-42206

890-1696 Chain of Custody

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
BG01	S	12/08/2021	0945	1'	1	x	x	x	
BG01A	S	12/08/2021	0950	2'	1	x	x	x	
BG01B	S	12/08/2021	1000	3'	1	x	x	x	
BG01C	S	12/08/2021	1015	4'	1	x	x	x	
~~BG02~~	~~S~~	~~12/08/2021~~	~~1025~~	~~1'~~	~~1~~	~~x~~	~~x~~	~~x~~	
BG02A	S	12/08/2021	1030	2'	1	x	x	x	
BG02B	S	12/08/2021	1035	3'	1	x	x	x	
BG02C	S	12/08/2021	1045	4'	1	x	x	x	
BG03	S	12/08/2021	1245	1'	1	x	x	x	
BG03A	S	12/08/2021	1250	2'	1	x	x	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			12/10/21 11:24	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

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: _____

www.xenco.com Page 2 of 2

12/13/2021

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc.	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:	432.236.3849	Email:	Alexis.Castro@wsp.com; tacoma.morrissey@wsp.com

Work Order Comments

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

Project Name:	Nash Unit 043H	Turn Around	
Project Number:	31403236.020.0129 Task# 10.02	Routine	☐
P.O. Number:	CC: 1140771001	Rush: 24hr	
Sampler's Name:	Alexis Castro	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank: Yes No	Wet Ice: Yes No	Thermometer ID
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

INC#: NAPP2128451743
API: 30-015-42206

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
BG03B	S	12/08/2021	1255	3'	1	x	x	x	
BG03C	S	12/08/2021	1300	4'	1	x	x	x	
BG04	S	12/08/2021	1310	1'	1	x	x	x	
BG04A	S	12/08/2021	1315	2'	1	x	x	x	
BG04B	S	12/08/2021	1320	3'	1	x	x	x	
BG04C	S	12/08/2021	1325	4'	1	x	x	x	
BG05	S	12/08/2021	1335	1'	1	x	x	x	
BG05A	S	12/08/2021	1340	2'	1	x	x	x	
BG05B	S	12/08/2021	1345	3'	1	x	x	x	
BG05C	S	12/08/2021	1350	4'	1	x	x	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/10/21 11:21	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1696-1
SDG Number: 31403236.020.0129 Task# 10.02

Login Number: 1696
List Number: 1
Creator: Olivas, Nathaniel

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: 890-1696-1
SDG Number: 31403236.020.0129 Task# 10.02

Login Number: 1696
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 12/13/21 07:52 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").	True	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 69763

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 69763
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD does NOT approve the background chloride concentration of 30,200 mg/kg as closure criteria.	2/18/2022
chensley	The OCD will accept closure for chlorides at 20,000.	2/18/2022
chensley	Closure report due 04/18/2022.	2/18/2022