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

March 25, 2022

District I
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Remediation Work Plan
Nocaster 19 Federal 004H
Incident Number NAPP2124350596
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of COG Operating, LLC (COG), presents the following Remediation Work Plan (Work Plan) detailing site assessment activities completed to date and proposing additional remediation activities to address the impacted soil resulting from a release at the at the Nocaster 19 Federal 004H (Site) in Unit P, Section 19, Township 23 South, Range 34 East, in Lea County, New Mexico (Figure 1).

RELEASE BACKGROUND

On August 18, 2021, an oil dump diaphragm on a production knock out ruptured, causing the oil dump valve to malfunction. The malfunction resulted in a flare fire and the release of 0.9 barrels (bbls) of crude oil and 0.9 bbls of produced water. The release impacted the well pad and the adjacent pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on August 25, 2021, and subsequently submitted a Release Notification Form C-141 (Form C-141) on August 31, 2021. The release was assigned Incident Number NAPP2124350596.

Remediation efforts were postponed pending issuance of a Right of Entry (ROE) Permit requesting access from the New Mexico State Land Office (SLO). The ROE permit was submitted on September 9, 2021, and the executed permit was received from the SLO on November 2, 2021.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321734103290001, located approximately 1.4 miles northeast of the Site. The groundwater well

has a reported depth to groundwater of 345 feet bgs and a total depth of 400 feet bgs. Well records used for depth to groundwater determination are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an emergent palustrine wetland, located approximately 2,340 feet southeast of the Site. The Site is greater than 200 feet of a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Following the receipt of the approved ROE Permit, WSP personnel visited the Site on November 5, 2021, to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization 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. Photographic 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 (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria and/or the reclamation standards. Based on visible observations and laboratory analytical results for the preliminary samples, additional remediation activities were warranted.

DELINEATION SOIL SAMPLING AND ANALYTICAL RESULTS

On February 15, 2022, WSP personnel returned to the Site to complete delineation activities. Eight boreholes (BH01 through BH08) were advanced via hand auger within and around the release extent to delineate the lateral and vertical extent of impacted soil. Boreholes BH01 through BH04 were advanced within the release extent at the SS01 through SS04 preliminary soil sample locations. The boreholes were advanced to a maximum depth of 5 feet bgs. Delineation soil samples were collected from the boreholes at depths ranging from 1-foot bgs to 5 feet bgs. The delineation soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation borehole soil samples were collected, handled, and analyzed as described above and submitted to Eurofins in Carlsbad, New Mexico. The release extent and delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for the delineation samples collected from boreholes BH05 through BH08, advanced around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards for samples collected in the top four feet of pasture areas. Based on the laboratory analytical results, the lateral extent of the release was successfully defined.

Laboratory analytical results for the delineation samples collected from borehole BH02, advanced within pasture the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the reclamation standards. Laboratory analytical results for the delineation samples collected from boreholes BH01, BH03, and BH04, advanced within the pasture release extent, indicated that TPH and/or chloride concentrations exceeded the reclamation standard at depths ranging from 1-foot to 3 feet bgs. The terminal depth sample collected at 5 feet bgs from boreholes BH01 through BH04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure

Criteria and successfully defined the vertical extent of the release. The analytical results are summarized on Table 1 and laboratory analytical reports are included in Attachment 4.

PROPOSED REMEDIATION WORK PLAN

An estimated 200 cubic yards of impacted soil is present within the subsurface at the Site. WSP and COG propose to excavate the impacted soil in the release area to depths ranging from 1-foot to 3 feet bgs. Excavation activities will proceed until the final excavation samples confirm compliance with the Site Closure Criteria and with the reclamation standards for samples collected in the top four feet of pasture areas. The impacted soil will be disposed of at a licensed disposal facility.

Following removal of impacted soil, 5-point composite confirmation samples will be collected from the sidewalls and floors of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite samples will represent a maximum 200 square foot sampling area. The excavation soil samples will be handled following the same procedures as described above and analyzed at Eurofins in Carlsbad, New Mexico. Once COG has confirmed all impacted soil has been successfully removed, the excavation will be backfilled with material purchase locally and recontoured to match pre-existing site conditions. The disturbed pasture areas will be re-seeded with an approved BLM seed mixture.

Additionally, in order to determine depth to groundwater at the Site and confirm the applied Closure Criteria, WSP and COG propose to complete a depth to water boring within 0.5 miles of the release. WSP will oversee the installation of a soil boring utilizing a truck-mounted hollow-stem auger rig. The soil boring will be advanced to a depth of approximately 110 feet bgs or until groundwater is encountered. A WSP geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for over 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period depth to groundwater will be measured or the WSP geologist will confirm the boring is dry. The borehole will be properly abandoned following New Mexico Office of the State Engineer (NMOSE) procedures. WSP and COG will include documentation of the soil boring installation and the lithologic/soil sampling log in a subsequent closure request.

COG anticipates beginning remediation within 90 days of receipt of the approved remediation work plan. A final report requesting closure will be submitted within 30 days of receipt of final laboratory analytical results. The Form C-141 requesting approval of this work plan is included in Attachment 5.

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

Sincerely,

WSP USA Inc.

Tacoma Morrissey
Consultant, Geologist

Aimee Cole
Sr. Consultant, Environmental Scientist

cc: Charles Beauvais, COG Operating, LLC
New Mexico State Land Office

Attachments:

Figure 1	Site Location Map
Figure 2	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
Attachment 5	Form C-141

FIGURES

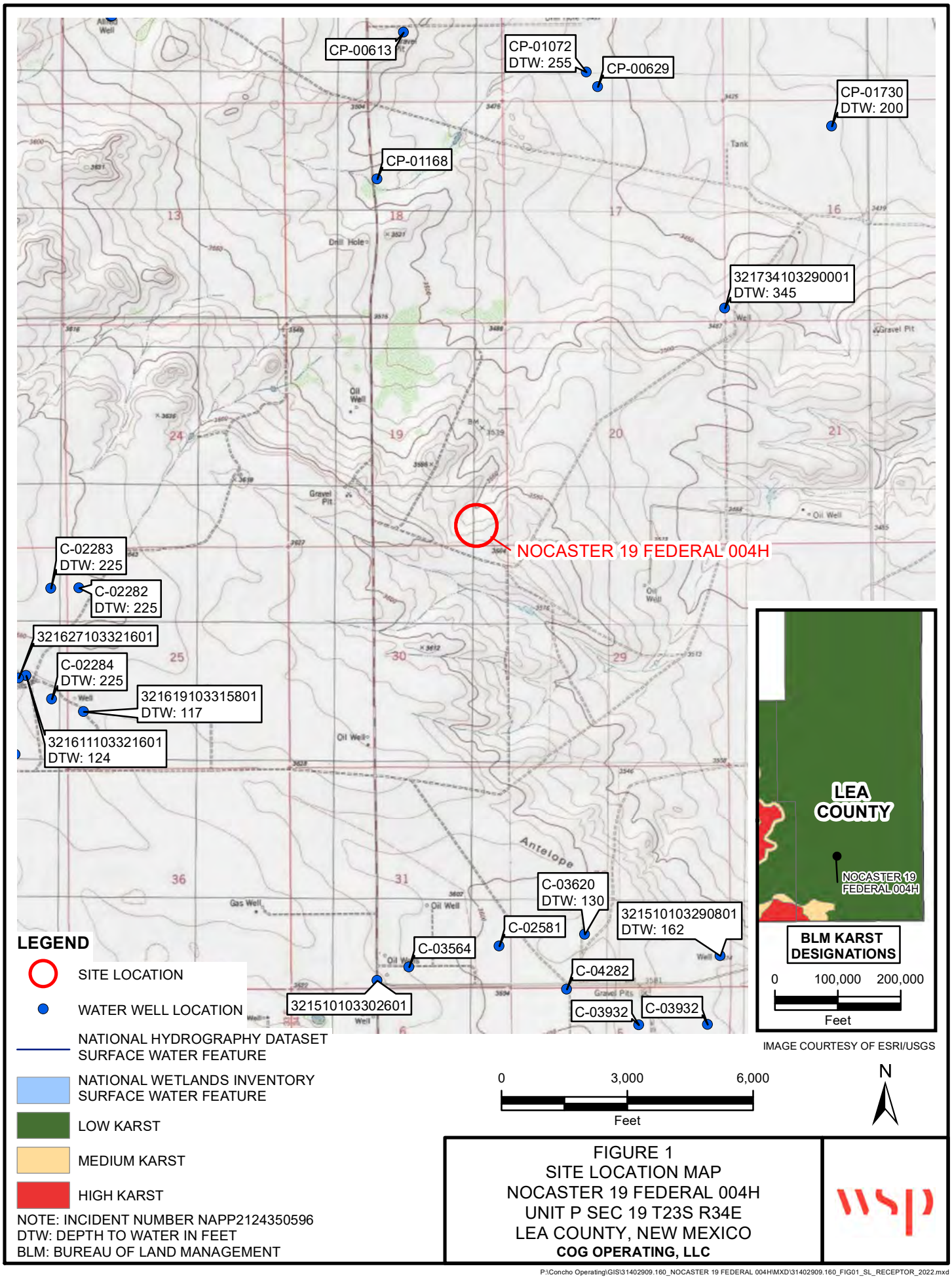


FIGURE 1
SITE LOCATION MAP
NOCASTER 19 FEDERAL 004H
UNIT P SEC 19 T23S R34E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.160_NOCASTER 19 FEDERAL 004H\MXD\31402909.160_FIG01_SL_RECEPTOR_2022.mxd

IMAGE COURTESY OF ESRI

LEGEND

SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

PAD BOUNDARY

0 50 100

Feet

N

NOTE: INCIDENT NUMBER NAPP2124350596
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
SOIL SAMPLE LOCATIONS
NOCASTER 19 FEDERAL 004H
UNIT P SEC 19 T23S R34E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.160_NOCASTER 19 FEDERAL 004H\MXD\31402909.160_FIG02_SS_LOC_2022_1.mxd

TABLES

Table 1

Soil Analytical Results
Nocaster 19 Federal 004H
Incident Number NAPP2124350596
COG Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Preliminary Soil Samples										
SS01	11/05/2021	0.5	<0.00200	<0.00399	4,290	<49.8	<49.8	**4,290**	**4,290**	166*
SS02	11/05/2021	0.5	<0.00202	<0.00403	151	<49.9	<49.9	151	151	1,330*
SS03	11/05/2021	0.5	<0.00199	<0.00398	65.3	<50.0	<50.0	65.3	65.3	7,310*
SS04	11/05/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	11,900*
Delineation Borehole Samples										
BH01	02/15/2022	1	<0.00198	<0.00397	113	<50.0	<50.0	113	113	960*
BH01A	02/15/2022	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,430*
BH01B	02/15/2022	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	761
BH02	02/15/2022	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	30.5*
BH02A	02/15/2022	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	20.1*
BH02B	02/15/2022	5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	27.4
BH03	02/15/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	689*
BH03A	02/15/2022	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	234*
BH03B	02/15/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	57.0
BH04	02/15/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	644*
BH04A	02/15/2022	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	150*
BH04B	02/15/2022	5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	12.9
BH05	02/15/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	531*
BH05A	02/15/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	41.1*
BH05B	02/15/2022	5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	30.9

Table 1

Soil Analytical Results
Nocaster 19 Federal 004H
Incident Number NAPP2124350596
COG Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
BH06	02/15/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	700
BH06A	02/15/2022	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	833
BH06B	02/15/2022	5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	495
BH07	02/15/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	392*
BH07A	02/15/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	56.1*
BH07B	02/15/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	26.1
BH08	02/15/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	44.0
BH08A	02/15/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	12.1

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
Text - impacted soil was excavated
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
* - incicates soil sample is located in the pasture in the top four feet and the reclamation standard will be applied

ATTACHMENT 1: REFERENCED WELL RECORDS

DESCRIPTION:

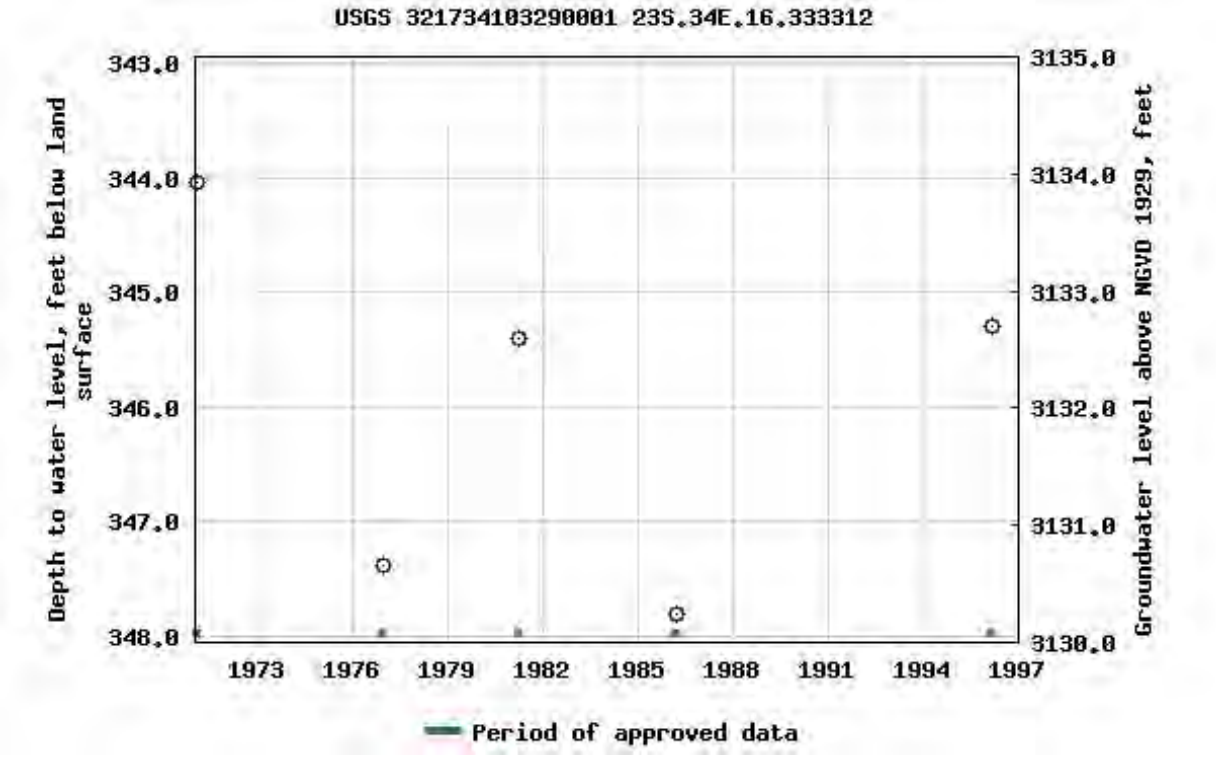
Latitude 32°17'53", Longitude 103°28'59" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 400 feet
Land surface altitude: 3,478.00 feet above NGVD29.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1971-01-13	1996-03-08	5
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 02282	3	1	1	25	23S	33E	638098	3572436*

Driller License: **Driller Company:**

Driller Name: CARL BRININSTOOL

Drill Start Date:		**Drill Finish Date:**	12/31/1922	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	6.50	**Depth Well:**	325 feet	**Depth Water:**	225 feet

***UTM location was derived from PLSS - see Help**

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
COG Operating, LLC	Nocaster 19 Federal 004H Lea County, New Mexico	NAPP2124350596

Photo No.	Date
1	November 5, 2022

Photo of release extent taken during initial site assessment.

Photo No.	Date
2	November 5, 2022

Photo of release extent taken during initial site assessment.

PHOTOGRAPHIC LOG		
COG Operating, LLC	Nocaster 19 Federal 004H Lea County, New Mexico	NAPP2124350596

Photo No.	Date
3	February 15, 2022

Photo of borehole completed during delineation activities.

Photo No.	Date
4	February 15, 2022

Photo of borehole completed during delineation activities.

ATTACHMENT 3: LITHOLOGIC/SOIL SAMPLING LOGS

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH01** | Date: **02/15/2022**
Site Name: **NoCaster 19 Fed #4H**
RP or Incident Number: **NAPP2124350596**
WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger
Lat/Long: **32.284265, -103.502147** | Field Screening: Chloride, PID | Hole Diameter: 3" | Total Depth: 5'
Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	823.2	1.3	N	BH01	1	1	SP-SC	SAND, dark brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain, no odor.
D	2,312.8	1.2	N			2	SP-SC	SAA
D	1,646.4	1.6	N	BH01A	3	3	SP-SC	SAA, abundant silt
D	1,232	1.2	N			4	SP-SC	SAA
D	823.2	1.3	N	BH01B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH02** | Date: **02/15/2022**

Site Name: **NoCaster 19 Fed #4H**

RP or Incident Number: **NAPP2124350596**

WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth:
32.284085, -103.50286	Chloride, PID	3"	5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	296.8	0.9	N	BH02	1	1	SP-SC	SAND, dark brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain, no odor.
D	<179.2	1.3	N			2	SP-SC	SAA
D	<179.2	1.1	N	BH02A	3	3	SP-SC	SAA
D	<179.2	1.2	N			4	SP-SC	SAA
D	<179.2	1.0	N	BH02B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH03** | Date: **02/15/2022**

Site Name: **NoCaster 19 Fed #4H**

RP or Incident Number: **NAPP2124350596**

WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger

Lat/Long: **32.284279, -103.502467** | Field Screening: Chloride, PID | Hole Diameter: 3" | Total Depth: 5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1,142.4	0.3	N	BH03	1	1	SP-SC	SAND, dark brown, dry, abundant clay, some silt, fine grain, well sorted, poorly graded, trace plant roots, no stain, no odor.
D	392	0.6	N			2	SP-SC	SAA, no plant roots
D	252	1.2	N	BH03A	3	3	SP-SC	SAA
D	<179.2	0.6	N			4	SP-SC	SAA
D	<179.2	0.7	N	BH03B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH04** | Date: **02/15/2022**
Site Name: **NoCaster 19 Fed #4H**
RP or Incident Number: **NAPP2124350596**
WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger
Lat/Long: **32.284284, -103.502588** | Field Screening: Chloride, PID | Hole Diameter: 3" | Total Depth: 5'
Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	1,764	1.2	N	BH04	1	1	SP-SC	SAND, dark reddish brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, trace caliche gravel, no stain, no odor.
D	832.2	1.3	N			2	SP-SC	SAA, dark brown, no caliche gravel.
D	<179.2	0.6	N	BH04A	3	3	SP-SC	SAA
D	<179.2	1.3	N			4	SP-SC	SAA
D	<179.2	1.3	N	BH04B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH05** | Date: **02/15/2022**
Site Name: **NoCaster 19 Fed #4H**
RP or Incident Number: **NAPP2124350596**
WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger
Lat/Long: **32.2843058, -103.5023658** | Field Screening: Chloride, PID | Hole Diameter: 3" | Total Depth: 5'
Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	560	0.3	N	BH05	1	1	SP-SC	SAND, dark brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain, no odor.
D	179.2	0.4	N			2	SP-SC	SAA
D	<179.2	0.5	N	BH05A	3	3	SP-SC	SAA
D	<179.2	0.4	N			4	SP-SC	SAA
D	<179.2	0.7	N	BH05B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH06**	Date: **02/15/2022**
Site Name: **NoCaster 19 Fed #4H**	
RP or Incident Number: **NAPP2124350596**	
WSP Job Number: **31403720.000**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB	Method: Hand Auger		
Lat/Long: **32.2842670, -103.5021051**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	498.4	0.0	N	BH06	1	1	SP-SC	SAND, dark brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain, no odor.
D	896	0.1	N			2	SP-SC	SAA
D	896	0.1	N	BH06A	3	3	SP-SC	SAA, abundant silt.
D	252	0.2	N			4	SP-SC	SAA
D	341.6	0.1	N	BH06B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH07** | Date: **02/15/2022**

Site Name: **NoCaster 19 Fed #4H**

RP or Incident Number: **NAPP2124350596**

WSP Job Number: **31403720.000**

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB | Method: Hand Auger

Lat/Long: **32.284281, -103.502644** | Field Screening: Chloride, PID | Hole Diameter: 3" | Total Depth: 5'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	392.0	0.0	N	BH07	1	1	SP-SC	SAND, dark reddish brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, trace caliche gravel, no stain, no odor.
D	212.8	0.1	N			2	SP-SC	SAA, dark brown, no caliche gravel.
D	<179.2	0.1	N	BH07A	3	3	SP-SC	SAA
D	<179.2	0.6	N			4	SP-SC	SAA
D	<179.2	0.6	N	BH07B	5	5	SP-SC	SAA

TD @ 5 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH08**	Date: **02/15/2022**
Site Name: **NoCaster 19 Fed #4H**	
RP or Incident Number: **NAPP2124350596**	
WSP Job Number: **31403720.000**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: PB	Method: Hand Auger		
Lat/Long: **32.2842476, -103.5023446**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	<179.2	0.6	N	BH08	1	1	SP-SC	SAND, dark reddish brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, trace caliche gravel, no stain, no odor.
D	<179.2	0.6	N	BH08A	2	2	SP-SC	SAND, light brown, dry, abundant silt/clay and caliche, fine grain, well sorted, poorly graded, no stain, no odor.

TD @ 2 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: 890-1546-1
Laboratory Sample Delivery Group: 31402909.16
Client Project/Site: NoCaster 19 Federal 004h

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
11/15/2021 3:48:00 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.

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Laboratory Job ID: 890-1546-1
SDG: 31402909.16

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Job ID: 890-1546-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1546-1

Receipt
The samples were received on 11/8/2021 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-11824/5-A). 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Client Sample ID: SS01

Lab Sample ID: 890-1546-1
Matrix: Solid
Date Collected: 11/05/21 15:53
Date Received: 11/08/21 16:15
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		11/10/21 09:30	11/10/21 15:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 15:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/21 09:30	11/10/21 15:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 15:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/21 09:30	11/10/21 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*11/10/21 09:30*	*11/10/21 15:53*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/10/21 09:30*	*11/10/21 15:53*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/21 14:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4290**		49.8		mg/Kg			11/11/21 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/11/21 08:21	11/11/21 16:48	1
Diesel Range Organics (Over C10-C28)	**4290**		49.8		mg/Kg		11/11/21 08:21	11/11/21 16:48	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/21 08:21	11/11/21 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/11/21 08:21*	*11/11/21 16:48*	*1*
o-Terphenyl	*77*		*70 - 130*	*11/11/21 08:21*	*11/11/21 16:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.95		mg/Kg			11/14/21 01:34	1

Client Sample ID: SS02

Lab Sample ID: 890-1546-2
Matrix: Solid
Date Collected: 11/05/21 15:55
Date Received: 11/08/21 16:15
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		11/10/21 09:30	11/10/21 16:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/10/21 09:30	11/10/21 16:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/10/21 09:30	11/10/21 16:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/10/21 09:30	11/10/21 16:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/10/21 09:30	11/10/21 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/10/21 09:30*	*11/10/21 16:13*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Client Sample ID: SS02 Lab Sample ID: 890-1546-2

Date Collected: 11/05/21 15:55 **Matrix: Solid**
Date Received: 11/08/21 16:15
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/21 09:30*	*11/10/21 16:13*	*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			11/15/21 14:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**151**		49.9	mg/Kg			11/11/21 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1
Diesel Range Organics (Over C10-C28)	**151**		49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 08:21	11/11/21 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:09*	*1*
o-Terphenyl	*108*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		4.98	mg/Kg			11/14/21 01:39	1

Client Sample ID: SS03 Lab Sample ID: 890-1546-3

Date Collected: 11/05/21 15:57 **Matrix: Solid**
Date Received: 11/08/21 16:15
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		11/10/21 09:30	11/10/21 18:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/21 09:30	11/10/21 18:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/21 09:30	11/10/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/10/21 09:30*	*11/10/21 18:02*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/10/21 09:30*	*11/10/21 18:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/15/21 14:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**65.3**		50.0	mg/Kg			11/11/21 15:24	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Client Sample ID: SS03 Lab Sample ID: 890-1546-3

Date Collected: 11/05/21 15:57 **Matrix: Solid**
Date Received: 11/08/21 16:15
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 17:30	1
Diesel Range Organics (Over C10-C28)	**65.3**		50.0		mg/Kg		11/11/21 08:21	11/11/21 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:30*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7310**		49.5		mg/Kg			11/14/21 01:44	10

Client Sample ID: SS04 Lab Sample ID: 890-1546-4

Date Collected: 11/05/21 15:58 **Matrix: Solid**
Date Received: 11/08/21 16:15
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/21 09:30	11/10/21 18:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/21 09:30	11/10/21 18:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/21 09:30	11/10/21 18:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/21 09:30	11/10/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/10/21 09:30*	*11/10/21 18:23*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/10/21 09:30*	*11/10/21 18:23*	*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			11/15/21 14:07	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			11/11/21 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 17:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 17:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:51*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/11/21 08:21*	*11/11/21 17:51*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Client Sample ID: SS04
Date Collected: 11/05/21 15:58
Date Received: 11/08/21 16:15
Sample Depth: 0.5

Lab Sample ID: 890-1546-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11900		101		mg/Kg			11/14/21 01:49	20

Surrogate Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

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)								
880-8100-A-21-A MS	Matrix Spike	113	102								
880-8100-A-21-B MSD	Matrix Spike Duplicate	117	104								
890-1546-1	SS01	123	90								
890-1546-2	SS02	120	106								
890-1546-3	SS03	107	99								
890-1546-4	SS04	110	98								
LCS 880-11824/1-A	Lab Control Sample	112	102								
LCSD 880-11824/2-A	Lab Control Sample Dup	108	101								
MB 880-11824/5-A	Method Blank	62 S1-	111								

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)								
890-1546-1	SS01	93	77								
890-1546-2	SS02	104	108								
890-1546-3	SS03	100	104								
890-1546-4	SS04	102	105								
890-1555-A-1-D MS	Matrix Spike	100	99								
LCS 880-11990/2-A	Lab Control Sample	84	93								
LCSD 880-11990/3-A	Lab Control Sample Dup	83	86								
MB 880-11990/1-A	Method Blank	106	127								

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)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID										
890-1555-A-1-E MSD	Matrix Spike Duplicate										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11824/5-A
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11824

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 12:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/21 09:30	11/10/21 12:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/21 09:30	11/10/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/21 09:30	11/10/21 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*11/10/21 09:30*	*11/10/21 12:41*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/10/21 09:30*	*11/10/21 12:41*	*1*

Lab Sample ID: LCS 880-11824/1-A
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11824

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09671		mg/Kg		97	70 - 130		
Toluene			0.100	0.1024		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1078		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2145		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1036		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-11824/2-A
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11824

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09531		mg/Kg		95	70 - 130	1	35
Toluene			0.100	0.1010		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.1067		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2085		mg/Kg		104	70 - 130	3	35
o-Xylene			0.100	0.1005		mg/Kg		100	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-8100-A-21-A MS
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 11824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0998	0.08923		mg/Kg		89	70 - 130		
Toluene	<0.00200	U	0.0998	0.09624		mg/Kg		95	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

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

Lab Sample ID: 880-8100-A-21-A MS
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 11824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0998	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1997		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09858		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-8100-A-21-B MSD
Matrix: Solid
Analysis Batch: 11888

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 11824

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	0.08626		mg/Kg		86	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09392		mg/Kg		93	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09454		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1841		mg/Kg		91	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.08863		mg/Kg		88	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-11990/1-A
Matrix: Solid
Analysis Batch: 11992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11990

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		11/11/21 08:21	11/11/21 09:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 09:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/21 08:21	11/11/21 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*11/11/21 08:21*	*11/11/21 09:47*	*1*
o-Terphenyl	*127*		*70 - 130*	*11/11/21 08:21*	*11/11/21 09:47*	*1*

Lab Sample ID: LCS 880-11990/2-A
Matrix: Solid
Analysis Batch: 11992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11990

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	895.5		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)			1000	900.5		mg/Kg		90	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

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

Lab Sample ID: LCS 880-11990/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-11990/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	918.9		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	870.9		mg/Kg		87	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-1555-A-1-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1100		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	793.8		mg/Kg		77	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-1555-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1148		mg/Kg					
Diesel Range Organics (Over C10-C28)	<50.0	U	998	849.1		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane			
o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12129/1-A
Matrix: Solid
Analysis Batch: 12200

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			11/14/21 01:05	1

Lab Sample ID: LCS 880-12129/2-A
Matrix: Solid
Analysis Batch: 12200

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	247.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-12129/3-A
Matrix: Solid
Analysis Batch: 12200

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	249.3		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-8171-A-1-G MS
Matrix: Solid
Analysis Batch: 12200

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	85.1		250	321.0		mg/Kg		94	90 - 110		

Lab Sample ID: 880-8171-A-1-H MSD
Matrix: Solid
Analysis Batch: 12200

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	85.1		250	318.3		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

GC VOA

Prep Batch: 11824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	5035	
890-1546-2	SS02	Total/NA	Solid	5035	
890-1546-3	SS03	Total/NA	Solid	5035	
890-1546-4	SS04	Total/NA	Solid	5035	
MB 880-11824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8100-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-8100-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8021B	11824
890-1546-2	SS02	Total/NA	Solid	8021B	11824
890-1546-3	SS03	Total/NA	Solid	8021B	11824
890-1546-4	SS04	Total/NA	Solid	8021B	11824
MB 880-11824/5-A	Method Blank	Total/NA	Solid	8021B	11824
LCS 880-11824/1-A	Lab Control Sample	Total/NA	Solid	8021B	11824
LCSD 880-11824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11824
880-8100-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	11824
880-8100-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11824

Analysis Batch: 12338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	Total BTEX	
890-1546-2	SS02	Total/NA	Solid	Total BTEX	
890-1546-3	SS03	Total/NA	Solid	Total BTEX	
890-1546-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015NM Prep	
890-1546-2	SS02	Total/NA	Solid	8015NM Prep	
890-1546-3	SS03	Total/NA	Solid	8015NM Prep	
890-1546-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-11990/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11990/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1555-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1555-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015B NM	11990
890-1546-2	SS02	Total/NA	Solid	8015B NM	11990
890-1546-3	SS03	Total/NA	Solid	8015B NM	11990
890-1546-4	SS04	Total/NA	Solid	8015B NM	11990
MB 880-11990/1-A	Method Blank	Total/NA	Solid	8015B NM	11990
LCS 880-11990/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11990

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

GC Semi VOA (Continued)

Analysis Batch: 11992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11990/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11990
890-1555-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	11990
890-1555-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11990

Analysis Batch: 12045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Total/NA	Solid	8015 NM	
890-1546-2	SS02	Total/NA	Solid	8015 NM	
890-1546-3	SS03	Total/NA	Solid	8015 NM	
890-1546-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Soluble	Solid	DI Leach	
890-1546-2	SS02	Soluble	Solid	DI Leach	
890-1546-3	SS03	Soluble	Solid	DI Leach	
890-1546-4	SS04	Soluble	Solid	DI Leach	
MB 880-12129/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8171-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8171-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1546-1	SS01	Soluble	Solid	300.0	12129
890-1546-2	SS02	Soluble	Solid	300.0	12129
890-1546-3	SS03	Soluble	Solid	300.0	12129
890-1546-4	SS04	Soluble	Solid	300.0	12129
MB 880-12129/1-A	Method Blank	Soluble	Solid	300.0	12129
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	300.0	12129
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12129
880-8171-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	12129
880-8171-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12129

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Client Sample ID: SS01

Lab Sample ID: 890-1546-1
Matrix: Solid
Date Collected: 11/05/21 15:53
Date Received: 11/08/21 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 15:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			12200	11/14/21 01:34	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1546-2
Matrix: Solid
Date Collected: 11/05/21 15:55
Date Received: 11/08/21 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 16:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			12200	11/14/21 01:39	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1546-3
Matrix: Solid
Date Collected: 11/05/21 15:57
Date Received: 11/08/21 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 18:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		10			12200	11/14/21 01:44	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1546-4
Matrix: Solid
Date Collected: 11/05/21 15:58
Date Received: 11/08/21 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11824	11/10/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11888	11/10/21 18:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12338	11/15/21 14:07	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Client Sample ID: SS04

Date Collected: 11/05/21 15:58
Date Received: 11/08/21 16:15

Lab Sample ID: 890-1546-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11990	11/11/21 08:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11992	11/11/21 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		20			12200	11/14/21 01:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1546-1
Project/Site: NoCaster 19 Federal 004h SDG: 31402909.16

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

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: NoCaster 19 Federal 004h

Job ID: 890-1546-1
SDG: 31402909.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1546-1	SS01	Solid	11/05/21 15:53	11/08/21 16:15	0.5 - .
890-1546-2	SS02	Solid	11/05/21 15:55	11/08/21 16:15	0.5
890-1546-3	SS03	Solid	11/05/21 15:57	11/08/21 16:15	0.5
890-1546-4	SS04	Solid	11/05/21 15:58	11/08/21 16:15	0.5

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 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Bldg 1, Unit 222	Address:	3300 North A Street Bldg 1, Unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	kalei.jennings@wsp.com, payton.benner@wsp.com

Work Order Comments

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

Project Name:	NoCaster 19 Federal 004H	Turn Around	
Project Number:	31402909.16	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1.6/1.4	Thermometer ID	TNM_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 0=8021)	Chloride (EPA 300.0)
SS01	S	11/05/21	15;53	0.5'	1	X	X	X
SS02	S	11/05/21	15:55	0.5'	1	X	X	X
SS03	S	11/05/21	15:57	0.5'	1	X	X	X
SS04	S	11/05/21	15:58	0.5'	1	X	X	X

890-1546 Chain of Custody

Work Order Notes

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

Sample Comments

Sample Comments
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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 pBenner		11.8.21 1615	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: 890-500 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 #: 890-1546-1
Address: 1211 W Florida Ave	Due Date Requested: 11/12/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: NoCaster 19 Federal 004h	Project #: 89000048			
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 Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X						X	
SS01 (890-1546-1)	11/5/21	15 53 Mountain		Solid			X	X	X	X	X	1	
SS02 (890-1546-2)	11/5/21	15 55 Mountain		Solid			X	X	X	X	X	1	
SS03 (890-1546-3)	11/5/21	15 57 Mountain		Solid			X	X	X	X	X	1	
SS04 (890-1546-4)	11/5/21	15 58 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: Clue Ortiz 11.9.21	Date/Time	Company	Received by: Kramer	Date/Time: 11.10.21	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1115	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.9/3.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1546-1
SDG Number: 31402909.16

Login Number: 1546
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: 890-1546-1
SDG Number: 31402909.16

Login Number: 1546
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 11/10/21 11:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8/3.9
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 Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1960-1
Laboratory Sample Delivery Group: 31402309.16
Client Project/Site: NoCaster 19

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
2/28/2022 7:37:43 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.

Client: WSP USA Inc.
Project/Site: NoCaster 19

Laboratory Job ID: 890-1960-1
SDG: 31402309.16

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1960-1
Project/Site: NoCaster 19 SDG: 31402309.16

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Job ID: 890-1960-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1960-1

Receipt
The samples were received on 2/16/2022 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19724 and analytical batch 880-20289 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19826 and analytical batch 880-19863 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-19826 and analytical batch 880-19863 were outside control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-19826/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-19794 and analytical batch 880-19891 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19794 and analytical batch 880-19891 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH01

Lab Sample ID: 890-1960-1
Matrix: Solid
Date Collected: 02/15/22 11:42
Date Received: 02/16/22 11:07
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 22:38	1
m-Xylene & p-Xylene	<0.00397	U F1	0.00397		mg/Kg		02/18/22 09:30	02/25/22 22:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 22:38	1
Xylenes, Total	<0.00397	U F1	0.00397		mg/Kg		02/18/22 09:30	02/25/22 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:38*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:38*	*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			02/28/22 18:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**113**		50.0		mg/Kg			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		02/18/22 09:15	02/21/22 11:42	1
Diesel Range Organics (Over C10-C28)	**113**	***1 F1**	50.0		mg/Kg		02/18/22 09:15	02/21/22 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/18/22 09:15*	*02/21/22 11:42*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/18/22 09:15*	*02/21/22 11:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**960**		25.0		mg/Kg			02/21/22 21:54	5

Client Sample ID: BH01A

Lab Sample ID: 890-1960-2
Matrix: Solid
Date Collected: 02/15/22 11:54
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/25/22 22:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/25/22 22:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/25/22 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:59*	*1*

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH01A

Lab Sample ID: 890-1960-2
Matrix: Solid
Date Collected: 02/15/22 11:54
Date Received: 02/16/22 11:07
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:59*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 12:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*02/18/22 09:15*	*02/21/22 12:44*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/18/22 09:15*	*02/21/22 12:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1430**		25.1		mg/Kg			02/21/22 22:13	5

Client Sample ID: BH01B

Lab Sample ID: 890-1960-3
Matrix: Solid
Date Collected: 02/15/22 12:00
Date Received: 02/16/22 11:07
Sample Depth: 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		02/18/22 09:30	02/25/22 23:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/25/22 23:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/25/22 23:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/25/22 23:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/25/22 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/18/22 09:30*	*02/25/22 23:19*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/25/22 23:19*	*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			02/28/22 18:47	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			02/28/22 20:00	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH01B

Lab Sample ID: 890-1960-3
Matrix: Solid
Date Collected: 02/15/22 12:00
Date Received: 02/16/22 11:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:04*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**761**		4.98		mg/Kg			02/21/22 22:19	1

Client Sample ID: BH02

Lab Sample ID: 890-1960-4
Matrix: Solid
Date Collected: 02/15/22 12:09
Date Received: 02/16/22 11:07
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 23:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/25/22 23:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/25/22 23:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/25/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/18/22 09:30*	*02/25/22 23:40*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/25/22 23:40*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:25*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:25*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH02

Lab Sample ID: 890-1960-4
Matrix: Solid
Date Collected: 02/15/22 12:09
Date Received: 02/16/22 11:07
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		4.96		mg/Kg			02/21/22 22:38	1

Client Sample ID: BH02A

Lab Sample ID: 890-1960-5
Matrix: Solid
Date Collected: 02/15/22 12:16
Date Received: 02/16/22 11:07
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/26/22 00:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/26/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:00*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:00*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 13:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 13:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:45*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/18/22 09:15*	*02/21/22 13:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.05		mg/Kg			02/21/22 22:44	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH02B

Lab Sample ID: 890-1960-6
Matrix: Solid
Date Collected: 02/15/22 12:21
Date Received: 02/16/22 11:07
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/26/22 00:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/18/22 09:30	02/26/22 00:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/18/22 09:30	02/26/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:21*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:06*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		4.98		mg/Kg			02/21/22 22:51	1

Client Sample ID: BH03

Lab Sample ID: 890-1960-7
Matrix: Solid
Date Collected: 02/15/22 12:29
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 00:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 00:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 00:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:42*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH03

Lab Sample ID: 890-1960-7
Matrix: Solid
Date Collected: 02/15/22 12:29
Date Received: 02/16/22 11:07
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 00:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*110*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:26*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**689**		5.05	mg/Kg			02/21/22 22:57	1

Client Sample ID: BH03A

Lab Sample ID: 890-1960-8
Matrix: Solid
Date Collected: 02/15/22 12:34
Date Received: 02/16/22 11:07
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/18/22 09:30	02/26/22 01:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/18/22 09:30	02/26/22 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:02*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:02*	*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			02/28/22 18:47	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			02/28/22 20:00	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH03A

Lab Sample ID: 890-1960-8
Matrix: Solid
Date Collected: 02/15/22 12:34
Date Received: 02/16/22 11:07
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	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:47*	*1*
o-Terphenyl	*115*		*70 - 130*	*02/18/22 09:15*	*02/21/22 14:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		4.97		mg/Kg			02/21/22 23:03	1

Client Sample ID: BH03B

Lab Sample ID: 890-1960-9
Matrix: Solid
Date Collected: 02/15/22 12:39
Date Received: 02/16/22 11:07
Sample Depth: 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		02/18/22 09:30	02/26/22 01:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 01:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 01:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 01:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:23*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:23*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/18/22 09:15*	*02/21/22 15:08*	*1*
o-Terphenyl	*123*		*70 - 130*	*02/18/22 09:15*	*02/21/22 15:08*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH03B

Lab Sample ID: 890-1960-9
Matrix: Solid
Date Collected: 02/15/22 12:39
Date Received: 02/16/22 11:07
Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.0		4.95		mg/Kg			02/21/22 23:10	1

Client Sample ID: BH04

Lab Sample ID: 890-1960-10
Matrix: Solid
Date Collected: 02/15/22 12:51
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 01:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 01:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 01:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/26/22 01:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 01:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/26/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/26/22 01:44*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/18/22 09:15*	*02/21/22 15:28*	*1*
o-Terphenyl	*128*		*70 - 130*	*02/18/22 09:15*	*02/21/22 15:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	644		5.00		mg/Kg			02/21/22 23:16	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH04A

Lab Sample ID: 890-1960-11
Matrix: Solid
Date Collected: 02/15/22 12:57
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 03:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 03:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 03:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/18/22 09:30	02/26/22 03:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 03:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/18/22 09:30	02/26/22 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:08*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:08*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/22 09:15	02/21/22 16:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:09*	*1*
o-Terphenyl	*114*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		5.01		mg/Kg			02/22/22 10:07	1

Client Sample ID: BH04B

Lab Sample ID: 890-1960-12
Matrix: Solid
Date Collected: 02/15/22 13:01
Date Received: 02/16/22 11:07
Sample Depth: 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		02/18/22 09:30	02/26/22 03:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 03:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/18/22 09:30	02/26/22 03:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 03:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/18/22 09:30	02/26/22 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:28*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH04B
Date Collected: 02/15/22 13:01
Date Received: 02/16/22 11:07
Sample Depth: 5

Lab Sample ID: 890-1960-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:28*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 09:15	02/21/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:30*	*1*
o-Terphenyl	*107*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.97	mg/Kg			02/22/22 10:13	1

Client Sample ID: BH05
Date Collected: 02/15/22 15:57
Date Received: 02/16/22 11:07
Sample Depth: 1

Lab Sample ID: 890-1960-13
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		02/18/22 09:30	02/26/22 03:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 03:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/18/22 09:30	02/26/22 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 03:49*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH05

Lab Sample ID: 890-1960-13
Matrix: Solid
Date Collected: 02/15/22 15:57
Date Received: 02/16/22 11:07
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		02/18/22 09:15	02/21/22 16:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 16:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:50*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/18/22 09:15*	*02/21/22 16:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**531**		4.96		mg/Kg			02/22/22 10:20	1

Client Sample ID: BH05A

Lab Sample ID: 890-1960-14
Matrix: Solid
Date Collected: 02/15/22 16:01
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 04:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 04:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/18/22 09:30	02/26/22 04:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 04:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/18/22 09:30	02/26/22 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:10*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:10*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:11*	*1*
o-Terphenyl	*104*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:11*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH05A

Lab Sample ID: 890-1960-14
Matrix: Solid
Date Collected: 02/15/22 16:01
Date Received: 02/16/22 11:07
Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1	F1	5.00		mg/Kg			02/22/22 10:26	1

Client Sample ID: BH05B

Lab Sample ID: 890-1960-15
Matrix: Solid
Date Collected: 02/15/22 16:04
Date Received: 02/16/22 11:07
Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/18/22 09:30	02/26/22 04:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/18/22 09:30	02/26/22 04:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/18/22 09:30	02/26/22 04:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/18/22 09:30	02/26/22 04:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/18/22 09:30	02/26/22 04:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/18/22 09:30	02/26/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:30*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:30*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:32*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.9		5.02		mg/Kg			02/22/22 10:45	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH06

Lab Sample ID: 890-1960-16
Matrix: Solid
Date Collected: 02/15/22 15:16
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 04:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 04:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 04:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 04:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 04:51*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:52*	*1*
o-Terphenyl	*115*		*70 - 130*	*02/18/22 09:15*	*02/21/22 17:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**700**		24.9		mg/Kg			02/22/22 10:51	5

Client Sample ID: BH06A

Lab Sample ID: 890-1960-17
Matrix: Solid
Date Collected: 02/15/22 15:25
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 05:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 05:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/18/22 09:30	02/26/22 05:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/18/22 09:30	02/26/22 05:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/18/22 09:30	02/26/22 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:11*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH06A

Lab Sample ID: 890-1960-17
Matrix: Solid
Date Collected: 02/15/22 15:25
Date Received: 02/16/22 11:07
Sample Depth: 3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:11*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/18/22 09:15	02/21/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:12*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**833**		4.96	mg/Kg			02/22/22 11:10	1

Client Sample ID: BH06B

Lab Sample ID: 890-1960-18
Matrix: Solid
Date Collected: 02/15/22 15:30
Date Received: 02/16/22 11:07
Sample Depth: 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		02/18/22 09:30	02/26/22 05:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/18/22 09:30	02/26/22 05:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/18/22 09:30	02/26/22 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:32*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH06B
Lab Sample ID: 890-1960-18
Date Collected: 02/15/22 15:30
Matrix: Solid
Date Received: 02/16/22 11:07
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/22 09:15	02/21/22 18:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/22 09:15	02/21/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:33*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**495**		5.05		mg/Kg			02/22/22 11:17	1

Client Sample ID: BH07
Lab Sample ID: 890-1960-19
Date Collected: 02/15/22 15:36
Matrix: Solid
Date Received: 02/16/22 11:07
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		02/18/22 09:30	02/26/22 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 05:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/18/22 09:30	02/26/22 05:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/26/22 05:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/18/22 09:30	02/26/22 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/18/22 09:30*	*02/26/22 05:52*	*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			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 18:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 18:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:53*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/18/22 09:15*	*02/21/22 18:53*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH07

Lab Sample ID: 890-1960-19
Matrix: Solid
Date Collected: 02/15/22 15:36
Date Received: 02/16/22 11:07
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		4.98		mg/Kg			02/22/22 11:23	1

Client Sample ID: BH07A

Lab Sample ID: 890-1960-20
Matrix: Solid
Date Collected: 02/15/22 15:41
Date Received: 02/16/22 11:07
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 06:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 06:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 06:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 06:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/18/22 09:30	02/26/22 06:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/18/22 09:30	02/26/22 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/18/22 09:30*	*02/26/22 06:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/18/22 09:30*	*02/26/22 06:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/22 18:47	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			02/28/22 20:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/18/22 09:15	02/21/22 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/18/22 09:15*	*02/21/22 19:13*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/18/22 09:15*	*02/21/22 19:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.1		5.05		mg/Kg			02/22/22 11:29	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH07B

Lab Sample ID: 890-1960-21
Matrix: Solid
Date Collected: 02/15/22 15:45
Date Received: 02/16/22 11:07
Sample Depth: 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		02/24/22 09:00	02/25/22 16:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:00	02/25/22 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/24/22 09:00	02/25/22 16:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/24/22 09:00	02/25/22 16:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/24/22 09:00	02/25/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*02/24/22 09:00*	*02/25/22 16:19*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/24/22 09:00*	*02/25/22 16:19*	*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			02/25/22 20:45	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			02/21/22 19:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 *1	50.0		mg/Kg		02/18/22 14:35	02/19/22 23:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 *1	50.0		mg/Kg		02/18/22 14:35	02/19/22 23:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 14:35	02/19/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*02/18/22 14:35*	*02/19/22 23:11*	*1*
o-Terphenyl	*80*		*70 - 130*	*02/18/22 14:35*	*02/19/22 23:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		4.97		mg/Kg			02/22/22 11:36	1

Client Sample ID: BH08

Lab Sample ID: 890-1960-22
Matrix: Solid
Date Collected: 02/15/22 16:12
Date Received: 02/16/22 11:07
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:00	02/25/22 16:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/24/22 09:00	02/25/22 16:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/24/22 09:00	02/25/22 16:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/24/22 09:00	02/25/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/24/22 09:00*	*02/25/22 16:39*	*1*

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1960-1
Project/Site: NoCaster 19 SDG: 31402309.16

Client Sample ID: BH08 — Lab Sample ID: 890-1960-22

Date Collected: 02/15/22 16:12 **Matrix: Solid**
Date Received: 02/16/22 11:07
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/24/22 09:00*	*02/25/22 16:39*	*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			02/25/22 20:45	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			02/21/22 19:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		02/18/22 14:35	02/20/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/18/22 14:35	02/20/22 00:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/18/22 14:35	02/20/22 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*79*		*70 - 130*	*02/18/22 14:35*	*02/20/22 00:12*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/18/22 14:35*	*02/20/22 00:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.0**		4.95	mg/Kg			02/22/22 11:42	1

Client Sample ID: BH08A — Lab Sample ID: 890-1960-23

Date Collected: 02/15/22 16:16 **Matrix: Solid**
Date Received: 02/16/22 11:07
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 09:00	02/25/22 17:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/24/22 09:00	02/25/22 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*02/24/22 09:00*	*02/25/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/24/22 09:00*	*02/25/22 17:00*	*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			02/25/22 20:45	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			02/21/22 19:16	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH08A

Date Collected: 02/15/22 16:16
Date Received: 02/16/22 11:07
Sample Depth: 2

Lab Sample ID: 890-1960-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		02/18/22 14:35	02/20/22 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/18/22 14:35	02/20/22 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/18/22 14:35	02/20/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*02/18/22 14:35*	*02/20/22 00:33*	*1*
o-Terphenyl	*94*		*70 - 130*	*02/18/22 14:35*	*02/20/22 00:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		5.00		mg/Kg			02/22/22 11:48	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-11356-A-1-E MS	Matrix Spike	92	111										
880-11356-A-1-F MSD	Matrix Spike Duplicate	93	106										
890-1960-1	BH01	100	98										
890-1960-1 MS	BH01	102	100										
890-1960-1 MSD	BH01	102	100										
890-1960-2	BH01A	108	95										
890-1960-3	BH01B	102	98										
890-1960-4	BH02	104	98										
890-1960-5	BH02A	103	97										
890-1960-6	BH02B	104	98										
890-1960-7	BH03	103	97										
890-1960-8	BH03A	101	96										
890-1960-9	BH03B	103	97										
890-1960-10	BH04	104	98										
890-1960-11	BH04A	106	93										
890-1960-12	BH04B	107	92										
890-1960-13	BH05	103	97										
890-1960-14	BH05A	114	93										
890-1960-15	BH05B	105	95										
890-1960-16	BH06	102	97										
890-1960-17	BH06A	103	99										
890-1960-18	BH06B	113	95										
890-1960-19	BH07	101	97										
890-1960-20	BH07A	106	98										
890-1960-21	BH07B	112	95										
890-1960-22	BH08	115	93										
890-1960-23	BH08A	109	91										
LCS 880-19724/1-A	Lab Control Sample	103	101										
LCS 880-19725/1-A	Lab Control Sample	86	107										
LCSD 880-19724/2-A	Lab Control Sample Dup	101	90										
LCSD 880-19725/2-A	Lab Control Sample Dup	85	110										
MB 880-19724/5-A	Method Blank	99	96										
MB 880-19725/5-A	Method Blank	109	102										
MB 880-20196/5-A	Method Blank	95	95										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-1960-1	BH01	109	113										
890-1960-1 MS	BH01	104	96										
890-1960-1 MSD	BH01	100	92										
890-1960-2	BH01A	103	106										
890-1960-3	BH01B	105	110										

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1960-1
Project/Site: NoCaster 19 SDG: 31402309.16

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)										
890-1960-4	BH02	107	109										
890-1960-5	BH02A	94	97										
890-1960-6	BH02B	104	111										
890-1960-7	BH03	110	113										
890-1960-8	BH03A	111	115										
890-1960-9	BH03B	118	123										
890-1960-10	BH04	122	128										
890-1960-11	BH04A	109	114										
890-1960-12	BH04B	103	107										
890-1960-13	BH05	105	110										
890-1960-14	BH05A	101	104										
890-1960-15	BH05B	98	99										
890-1960-16	BH06	110	115										
890-1960-17	BH06A	98	100										
890-1960-18	BH06B	105	106										
890-1960-19	BH07	106	111										
890-1960-20	BH07A	107	109										
890-1960-21	BH07B	78	80										
890-1960-21 MS	BH07B	79	83										
890-1960-21 MSD	BH07B	90	96										
890-1960-22	BH08	79	77										
890-1960-23	BH08A	95	94										
LCS 880-19794/2-A	Lab Control Sample	103	109										
LCSD 880-19794/3-A	Lab Control Sample Dup	102	111										
MB 880-19794/1-A	Method Blank	105	113										

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 880-19826/2-A	Lab Control Sample	126	134 S1+										
LCSD 880-19826/3-A	Lab Control Sample Dup	94	103										
MB 880-19826/1-A	Method Blank	96	100										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19724/5-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19724

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/25/22 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/18/22 09:30	02/25/22 22:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/18/22 09:30	02/25/22 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/18/22 09:30*	*02/25/22 22:16*	*1*

Lab Sample ID: LCS 880-19724/1-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1109		mg/Kg		111	70 - 130		
Toluene			0.100	0.1068		mg/Kg		107	70 - 130		
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2171		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-19724/2-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19724

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1024		mg/Kg		102	70 - 130	8	35
Toluene			0.100	0.1011		mg/Kg		101	70 - 130	6	35
Ethylbenzene			0.100	0.09904		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2050		mg/Kg		103	70 - 130	6	35
o-Xylene			0.100	0.1005		mg/Kg		101	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-1960-1 MS
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 19724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U	0.100	0.08339		mg/Kg		83	70 - 130		
Toluene	<0.00198	U	0.100	0.07764		mg/Kg		77	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: 890-1960-1 MS
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 19724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.100	0.07096		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.201	0.1153	F1	mg/Kg		57	70 - 130
o-Xylene	<0.00198	U	0.100	0.07878		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-1960-1 MSD
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 19724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.08074		mg/Kg		81	70 - 130	3	35
Toluene	<0.00198	U	0.100	0.07557		mg/Kg		75	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.07013		mg/Kg		70	70 - 130	1	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.1195	F1	mg/Kg		60	70 - 130	4	35
o-Xylene	<0.00198	U	0.100	0.07891		mg/Kg		79	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-19725/5-A
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19725

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:00	02/25/22 10:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/22 09:00	02/25/22 10:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/22 09:00	02/25/22 10:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/22 09:00	02/25/22 10:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*02/24/22 09:00*	*02/25/22 10:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/24/22 09:00*	*02/25/22 10:25*	*1*

Lab Sample ID: LCS 880-19725/1-A
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19725

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.1084		mg/Kg		108	70 - 130
Toluene			0.100	0.08952		mg/Kg		90	70 - 130
Ethylbenzene			0.100	0.08898		mg/Kg		89	70 - 130
m-Xylene & p-Xylene			0.200	0.1813		mg/Kg		91	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: LCS 880-19725/1-A
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19725

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.08954		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-19725/2-A
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19725

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1085		mg/Kg		108	70 - 130	0	35
Toluene			0.100	0.08803		mg/Kg		88	70 - 130	2	35
Ethylbenzene			0.100	0.08742		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1788		mg/Kg		89	70 - 130	1	35
o-Xylene			0.100	0.08779		mg/Kg		88	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-11356-A-1-E MS
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 19725

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U	0.0990	0.1104		mg/Kg		112	70 - 130		
Toluene	<0.00199	U	0.0990	0.09183		mg/Kg		92	70 - 130		
Ethylbenzene	0.00258		0.0990	0.09203		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1885		mg/Kg		93	70 - 130		
o-Xylene	0.00237		0.0990	0.09318		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-11356-A-1-F MSD
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19725

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.1074		mg/Kg		108	70 - 130	3	35
Toluene	<0.00199	U	0.0992	0.09362		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.00258		0.0992	0.09517		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1978		mg/Kg		98	70 - 130	5	35
o-Xylene	0.00237		0.0992	0.09806		mg/Kg		96	70 - 130	5	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: 880-11356-A-1-F MSD
Matrix: Solid
Analysis Batch: 20287

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19725

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-20196/5-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20196

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/22 10:19	02/25/22 11:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/22 10:19	02/25/22 11:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/22 10:19	02/25/22 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/22 10:19	02/25/22 11:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/22 10:19	02/25/22 11:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/22 10:19	02/25/22 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/24/22 10:19	02/25/22 11:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/24/22 10:19	02/25/22 11:22	1

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

Lab Sample ID: MB 880-19794/1-A
Matrix: Solid
Analysis Batch: 19891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19794

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		02/18/22 09:15	02/21/22 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 10:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 09:15	02/21/22 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/18/22 09:15	02/21/22 10:40	1
o-Terphenyl	113		70 - 130	02/18/22 09:15	02/21/22 10:40	1

Lab Sample ID: LCS 880-19794/2-A
Matrix: Solid
Analysis Batch: 19891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	818.6		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: LCSD 880-19794/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19891 — **Prep Batch: 19794**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.8		mg/Kg		100	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1271	*1	mg/Kg		127	70 - 130	23	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-1960-1 MS — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19891 — **Prep Batch: 19794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	1833	F1	mg/Kg		180	70 - 130
Diesel Range Organics (Over C10-C28)	113	*1 F1	1000	1456	F1	mg/Kg		134	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-1960-1 MSD — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19891 — **Prep Batch: 19794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1562	F1	mg/Kg		154	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	113	*1 F1	998	1407		mg/Kg		130	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: MB 880-19826/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19863 — **Prep Batch: 19826**

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		02/18/22 14:35	02/19/22 22:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/18/22 14:35	02/19/22 22:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/18/22 14:35	02/19/22 22:04	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: MB 880-19826/1-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19826

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/18/22 14:35	02/19/22 22:04	1
o-Terphenyl	100		70 - 130	02/18/22 14:35	02/19/22 22:04	1

Lab Sample ID: LCS 880-19826/2-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1174		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1072		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: LCSD 880-19826/3-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	904.3	*1	mg/Kg		90	70 - 130	26	20
Diesel Range Organics (Over C10-C28)			1000	821.9	*1	mg/Kg		82	70 - 130	26	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-1960-21 MS
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: BH07B
Prep Type: Total/NA
Prep Batch: 19826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 *1	1000	1127		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1 *1	1000	1300		mg/Kg		130	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Lab Sample ID: 890-1960-21 MSD — **Client Sample ID: BH07B**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 19863 — **Prep Batch: 19826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 *1	998	1341	F1	mg/Kg		132	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 *1	998	1497	F1	mg/Kg		150	70 - 130	14	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19804/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 19937

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/21/22 19:59	1

Lab Sample ID: LCS 880-19804/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 19937

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	246.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-19804/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 19937

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	254.4		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 890-1960-1 MS — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 19937

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	960		1250	2122		mg/Kg		93	90 - 110		

Lab Sample ID: 890-1960-1 MSD — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 19937

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	960		1250	2278		mg/Kg		105	90 - 110	7	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-19805/1-A
Matrix: Solid
Analysis Batch: 19939

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			02/22/22 08:38	1

Lab Sample ID: LCS 880-19805/2-A
Matrix: Solid
Analysis Batch: 19939

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-19805/3-A
Matrix: Solid
Analysis Batch: 19939

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	261.8		mg/Kg		105	90 - 110	2	20

Lab Sample ID: 890-1960-14 MS
Matrix: Solid
Analysis Batch: 19939

Client Sample ID: BH05A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	41.1	F1	250	246.0	F1	mg/Kg		82	90 - 110		

Lab Sample ID: 890-1960-14 MSD
Matrix: Solid
Analysis Batch: 19939

Client Sample ID: BH05A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	41.1	F1	250	297.0		mg/Kg		102	90 - 110	19	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

GC VOA

Prep Batch: 19724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	5035	
890-1960-2	BH01A	Total/NA	Solid	5035	
890-1960-3	BH01B	Total/NA	Solid	5035	
890-1960-4	BH02	Total/NA	Solid	5035	
890-1960-5	BH02A	Total/NA	Solid	5035	
890-1960-6	BH02B	Total/NA	Solid	5035	
890-1960-7	BH03	Total/NA	Solid	5035	
890-1960-8	BH03A	Total/NA	Solid	5035	
890-1960-9	BH03B	Total/NA	Solid	5035	
890-1960-10	BH04	Total/NA	Solid	5035	
890-1960-11	BH04A	Total/NA	Solid	5035	
890-1960-12	BH04B	Total/NA	Solid	5035	
890-1960-13	BH05	Total/NA	Solid	5035	
890-1960-14	BH05A	Total/NA	Solid	5035	
890-1960-15	BH05B	Total/NA	Solid	5035	
890-1960-16	BH06	Total/NA	Solid	5035	
890-1960-17	BH06A	Total/NA	Solid	5035	
890-1960-18	BH06B	Total/NA	Solid	5035	
890-1960-19	BH07	Total/NA	Solid	5035	
890-1960-20	BH07A	Total/NA	Solid	5035	
MB 880-19724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1960-1 MS	BH01	Total/NA	Solid	5035	
890-1960-1 MSD	BH01	Total/NA	Solid	5035	

Prep Batch: 19725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	5035	
890-1960-22	BH08	Total/NA	Solid	5035	
890-1960-23	BH08A	Total/NA	Solid	5035	
MB 880-19725/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19725/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19725/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11356-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-11356-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 20196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20196/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 20287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8021B	19725
890-1960-22	BH08	Total/NA	Solid	8021B	19725
890-1960-23	BH08A	Total/NA	Solid	8021B	19725
MB 880-19725/5-A	Method Blank	Total/NA	Solid	8021B	19725
LCS 880-19725/1-A	Lab Control Sample	Total/NA	Solid	8021B	19725
LCSD 880-19725/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19725
880-11356-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	19725
880-11356-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19725

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

GC VOA

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8021B	19724
890-1960-2	BH01A	Total/NA	Solid	8021B	19724
890-1960-3	BH01B	Total/NA	Solid	8021B	19724
890-1960-4	BH02	Total/NA	Solid	8021B	19724
890-1960-5	BH02A	Total/NA	Solid	8021B	19724
890-1960-6	BH02B	Total/NA	Solid	8021B	19724
890-1960-7	BH03	Total/NA	Solid	8021B	19724
890-1960-8	BH03A	Total/NA	Solid	8021B	19724
890-1960-9	BH03B	Total/NA	Solid	8021B	19724
890-1960-10	BH04	Total/NA	Solid	8021B	19724
890-1960-11	BH04A	Total/NA	Solid	8021B	19724
890-1960-12	BH04B	Total/NA	Solid	8021B	19724
890-1960-13	BH05	Total/NA	Solid	8021B	19724
890-1960-14	BH05A	Total/NA	Solid	8021B	19724
890-1960-15	BH05B	Total/NA	Solid	8021B	19724
890-1960-16	BH06	Total/NA	Solid	8021B	19724
890-1960-17	BH06A	Total/NA	Solid	8021B	19724
890-1960-18	BH06B	Total/NA	Solid	8021B	19724
890-1960-19	BH07	Total/NA	Solid	8021B	19724
890-1960-20	BH07A	Total/NA	Solid	8021B	19724
MB 880-19724/5-A	Method Blank	Total/NA	Solid	8021B	19724
MB 880-20196/5-A	Method Blank	Total/NA	Solid	8021B	20196
LCS 880-19724/1-A	Lab Control Sample	Total/NA	Solid	8021B	19724
LCSD 880-19724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19724
890-1960-1 MS	BH01	Total/NA	Solid	8021B	19724
890-1960-1 MSD	BH01	Total/NA	Solid	8021B	19724

Analysis Batch: 20370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	Total BTEX	
890-1960-22	BH08	Total/NA	Solid	Total BTEX	
890-1960-23	BH08A	Total/NA	Solid	Total BTEX	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	Total BTEX	
890-1960-2	BH01A	Total/NA	Solid	Total BTEX	
890-1960-3	BH01B	Total/NA	Solid	Total BTEX	
890-1960-4	BH02	Total/NA	Solid	Total BTEX	
890-1960-5	BH02A	Total/NA	Solid	Total BTEX	
890-1960-6	BH02B	Total/NA	Solid	Total BTEX	
890-1960-7	BH03	Total/NA	Solid	Total BTEX	
890-1960-8	BH03A	Total/NA	Solid	Total BTEX	
890-1960-9	BH03B	Total/NA	Solid	Total BTEX	
890-1960-10	BH04	Total/NA	Solid	Total BTEX	
890-1960-11	BH04A	Total/NA	Solid	Total BTEX	
890-1960-12	BH04B	Total/NA	Solid	Total BTEX	
890-1960-13	BH05	Total/NA	Solid	Total BTEX	
890-1960-14	BH05A	Total/NA	Solid	Total BTEX	
890-1960-15	BH05B	Total/NA	Solid	Total BTEX	
890-1960-16	BH06	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

GC VOA (Continued)

Analysis Batch: 20556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-17	BH06A	Total/NA	Solid	Total BTEX	
890-1960-18	BH06B	Total/NA	Solid	Total BTEX	
890-1960-19	BH07	Total/NA	Solid	Total BTEX	
890-1960-20	BH07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 19794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015NM Prep	
890-1960-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1960-3	BH01B	Total/NA	Solid	8015NM Prep	
890-1960-4	BH02	Total/NA	Solid	8015NM Prep	
890-1960-5	BH02A	Total/NA	Solid	8015NM Prep	
890-1960-6	BH02B	Total/NA	Solid	8015NM Prep	
890-1960-7	BH03	Total/NA	Solid	8015NM Prep	
890-1960-8	BH03A	Total/NA	Solid	8015NM Prep	
890-1960-9	BH03B	Total/NA	Solid	8015NM Prep	
890-1960-10	BH04	Total/NA	Solid	8015NM Prep	
890-1960-11	BH04A	Total/NA	Solid	8015NM Prep	
890-1960-12	BH04B	Total/NA	Solid	8015NM Prep	
890-1960-13	BH05	Total/NA	Solid	8015NM Prep	
890-1960-14	BH05A	Total/NA	Solid	8015NM Prep	
890-1960-15	BH05B	Total/NA	Solid	8015NM Prep	
890-1960-16	BH06	Total/NA	Solid	8015NM Prep	
890-1960-17	BH06A	Total/NA	Solid	8015NM Prep	
890-1960-18	BH06B	Total/NA	Solid	8015NM Prep	
890-1960-19	BH07	Total/NA	Solid	8015NM Prep	
890-1960-20	BH07A	Total/NA	Solid	8015NM Prep	
MB 880-19794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1960-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-1960-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 19826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015NM Prep	
890-1960-22	BH08	Total/NA	Solid	8015NM Prep	
890-1960-23	BH08A	Total/NA	Solid	8015NM Prep	
MB 880-19826/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19826/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19826/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1960-21 MS	BH07B	Total/NA	Solid	8015NM Prep	
890-1960-21 MSD	BH07B	Total/NA	Solid	8015NM Prep	

Analysis Batch: 19863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015B NM	19826
890-1960-22	BH08	Total/NA	Solid	8015B NM	19826
890-1960-23	BH08A	Total/NA	Solid	8015B NM	19826

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

GC Semi VOA (Continued)

Analysis Batch: 19863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19826/1-A	Method Blank	Total/NA	Solid	8015B NM	19826
LCS 880-19826/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19826
LCSD 880-19826/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19826
890-1960-21 MS	BH07B	Total/NA	Solid	8015B NM	19826
890-1960-21 MSD	BH07B	Total/NA	Solid	8015B NM	19826

Analysis Batch: 19891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015B NM	19794
890-1960-2	BH01A	Total/NA	Solid	8015B NM	19794
890-1960-3	BH01B	Total/NA	Solid	8015B NM	19794
890-1960-4	BH02	Total/NA	Solid	8015B NM	19794
890-1960-5	BH02A	Total/NA	Solid	8015B NM	19794
890-1960-6	BH02B	Total/NA	Solid	8015B NM	19794
890-1960-7	BH03	Total/NA	Solid	8015B NM	19794
890-1960-8	BH03A	Total/NA	Solid	8015B NM	19794
890-1960-9	BH03B	Total/NA	Solid	8015B NM	19794
890-1960-10	BH04	Total/NA	Solid	8015B NM	19794
890-1960-11	BH04A	Total/NA	Solid	8015B NM	19794
890-1960-12	BH04B	Total/NA	Solid	8015B NM	19794
890-1960-13	BH05	Total/NA	Solid	8015B NM	19794
890-1960-14	BH05A	Total/NA	Solid	8015B NM	19794
890-1960-15	BH05B	Total/NA	Solid	8015B NM	19794
890-1960-16	BH06	Total/NA	Solid	8015B NM	19794
890-1960-17	BH06A	Total/NA	Solid	8015B NM	19794
890-1960-18	BH06B	Total/NA	Solid	8015B NM	19794
890-1960-19	BH07	Total/NA	Solid	8015B NM	19794
890-1960-20	BH07A	Total/NA	Solid	8015B NM	19794
MB 880-19794/1-A	Method Blank	Total/NA	Solid	8015B NM	19794
LCS 880-19794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19794
LCSD 880-19794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19794
890-1960-1 MS	BH01	Total/NA	Solid	8015B NM	19794
890-1960-1 MSD	BH01	Total/NA	Solid	8015B NM	19794

Analysis Batch: 19992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-21	BH07B	Total/NA	Solid	8015 NM	
890-1960-22	BH08	Total/NA	Solid	8015 NM	
890-1960-23	BH08A	Total/NA	Solid	8015 NM	

Analysis Batch: 20572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Total/NA	Solid	8015 NM	
890-1960-2	BH01A	Total/NA	Solid	8015 NM	
890-1960-3	BH01B	Total/NA	Solid	8015 NM	
890-1960-4	BH02	Total/NA	Solid	8015 NM	
890-1960-5	BH02A	Total/NA	Solid	8015 NM	
890-1960-6	BH02B	Total/NA	Solid	8015 NM	
890-1960-7	BH03	Total/NA	Solid	8015 NM	
890-1960-8	BH03A	Total/NA	Solid	8015 NM	
890-1960-9	BH03B	Total/NA	Solid	8015 NM	

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

GC Semi VOA (Continued)

Analysis Batch: 20572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-10	BH04	Total/NA	Solid	8015 NM	
890-1960-11	BH04A	Total/NA	Solid	8015 NM	
890-1960-12	BH04B	Total/NA	Solid	8015 NM	
890-1960-13	BH05	Total/NA	Solid	8015 NM	
890-1960-14	BH05A	Total/NA	Solid	8015 NM	
890-1960-15	BH05B	Total/NA	Solid	8015 NM	
890-1960-16	BH06	Total/NA	Solid	8015 NM	
890-1960-17	BH06A	Total/NA	Solid	8015 NM	
890-1960-18	BH06B	Total/NA	Solid	8015 NM	
890-1960-19	BH07	Total/NA	Solid	8015 NM	
890-1960-20	BH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 19804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Soluble	Solid	DI Leach	
890-1960-2	BH01A	Soluble	Solid	DI Leach	
890-1960-3	BH01B	Soluble	Solid	DI Leach	
890-1960-4	BH02	Soluble	Solid	DI Leach	
890-1960-5	BH02A	Soluble	Solid	DI Leach	
890-1960-6	BH02B	Soluble	Solid	DI Leach	
890-1960-7	BH03	Soluble	Solid	DI Leach	
890-1960-8	BH03A	Soluble	Solid	DI Leach	
890-1960-9	BH03B	Soluble	Solid	DI Leach	
890-1960-10	BH04	Soluble	Solid	DI Leach	
MB 880-19804/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19804/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19804/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1960-1 MS	BH01	Soluble	Solid	DI Leach	
890-1960-1 MSD	BH01	Soluble	Solid	DI Leach	

Leach Batch: 19805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-11	BH04A	Soluble	Solid	DI Leach	
890-1960-12	BH04B	Soluble	Solid	DI Leach	
890-1960-13	BH05	Soluble	Solid	DI Leach	
890-1960-14	BH05A	Soluble	Solid	DI Leach	
890-1960-15	BH05B	Soluble	Solid	DI Leach	
890-1960-16	BH06	Soluble	Solid	DI Leach	
890-1960-17	BH06A	Soluble	Solid	DI Leach	
890-1960-18	BH06B	Soluble	Solid	DI Leach	
890-1960-19	BH07	Soluble	Solid	DI Leach	
890-1960-20	BH07A	Soluble	Solid	DI Leach	
890-1960-21	BH07B	Soluble	Solid	DI Leach	
890-1960-22	BH08	Soluble	Solid	DI Leach	
890-1960-23	BH08A	Soluble	Solid	DI Leach	
MB 880-19805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1960-14 MS	BH05A	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

HPLC/IC (Continued)

Leach Batch: 19805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-14 MSD	BH05A	Soluble	Solid	DI Leach	

Analysis Batch: 19937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-1	BH01	Soluble	Solid	300.0	19804
890-1960-2	BH01A	Soluble	Solid	300.0	19804
890-1960-3	BH01B	Soluble	Solid	300.0	19804
890-1960-4	BH02	Soluble	Solid	300.0	19804
890-1960-5	BH02A	Soluble	Solid	300.0	19804
890-1960-6	BH02B	Soluble	Solid	300.0	19804
890-1960-7	BH03	Soluble	Solid	300.0	19804
890-1960-8	BH03A	Soluble	Solid	300.0	19804
890-1960-9	BH03B	Soluble	Solid	300.0	19804
890-1960-10	BH04	Soluble	Solid	300.0	19804
MB 880-19804/1-A	Method Blank	Soluble	Solid	300.0	19804
LCS 880-19804/2-A	Lab Control Sample	Soluble	Solid	300.0	19804
LCSD 880-19804/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19804
890-1960-1 MS	BH01	Soluble	Solid	300.0	19804
890-1960-1 MSD	BH01	Soluble	Solid	300.0	19804

Analysis Batch: 19939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1960-11	BH04A	Soluble	Solid	300.0	19805
890-1960-12	BH04B	Soluble	Solid	300.0	19805
890-1960-13	BH05	Soluble	Solid	300.0	19805
890-1960-14	BH05A	Soluble	Solid	300.0	19805
890-1960-15	BH05B	Soluble	Solid	300.0	19805
890-1960-16	BH06	Soluble	Solid	300.0	19805
890-1960-17	BH06A	Soluble	Solid	300.0	19805
890-1960-18	BH06B	Soluble	Solid	300.0	19805
890-1960-19	BH07	Soluble	Solid	300.0	19805
890-1960-20	BH07A	Soluble	Solid	300.0	19805
890-1960-21	BH07B	Soluble	Solid	300.0	19805
890-1960-22	BH08	Soluble	Solid	300.0	19805
890-1960-23	BH08A	Soluble	Solid	300.0	19805
MB 880-19805/1-A	Method Blank	Soluble	Solid	300.0	19805
LCS 880-19805/2-A	Lab Control Sample	Soluble	Solid	300.0	19805
LCSD 880-19805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19805
890-1960-14 MS	BH05A	Soluble	Solid	300.0	19805
890-1960-14 MSD	BH05A	Soluble	Solid	300.0	19805

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH01
Date Collected: 02/15/22 11:42
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 22:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 11:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		5			19937	02/21/22 21:54	CH	XEN MID

Client Sample ID: BH01A
Date Collected: 02/15/22 11:54
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 22:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		5			19937	02/21/22 22:13	CH	XEN MID

Client Sample ID: BH01B
Date Collected: 02/15/22 12:00
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 23:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:19	CH	XEN MID

Client Sample ID: BH02
Date Collected: 02/15/22 12:09
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/25/22 23:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH02

Date Collected: 02/15/22 12:09
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:38	CH	XEN MID

Client Sample ID: BH02A

Date Collected: 02/15/22 12:16
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:44	CH	XEN MID

Client Sample ID: BH02B

Date Collected: 02/15/22 12:21
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:51	CH	XEN MID

Client Sample ID: BH03

Date Collected: 02/15/22 12:29
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 00:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:26	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH03
Date Collected: 02/15/22 12:29
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 22:57	CH	XEN MID

Client Sample ID: BH03A
Date Collected: 02/15/22 12:34
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:03	CH	XEN MID

Client Sample ID: BH03B
Date Collected: 02/15/22 12:39
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:10	CH	XEN MID

Client Sample ID: BH04
Date Collected: 02/15/22 12:51
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 01:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19804	02/18/22 10:28	CH	XEN MID
Soluble	Analysis	300.0		1			19937	02/21/22 23:16	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH04A
Date Collected: 02/15/22 12:57
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:07	CH	XEN MID

Client Sample ID: BH04B
Date Collected: 02/15/22 13:01
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:13	CH	XEN MID

Client Sample ID: BH05
Date Collected: 02/15/22 15:57
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 03:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:20	CH	XEN MID

Client Sample ID: BH05A
Date Collected: 02/15/22 16:01
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 04:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH05A
Date Collected: 02/15/22 16:01
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:26	CH	XEN MID

Client Sample ID: BH05B
Date Collected: 02/15/22 16:04
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 04:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 10:45	CH	XEN MID

Client Sample ID: BH06
Date Collected: 02/15/22 15:16
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 04:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		5			19939	02/22/22 10:51	CH	XEN MID

Client Sample ID: BH06A
Date Collected: 02/15/22 15:25
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 18:12	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH06A
Date Collected: 02/15/22 15:25
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:10	CH	XEN MID

Client Sample ID: BH06B
Date Collected: 02/15/22 15:30
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:17	CH	XEN MID

Client Sample ID: BH07
Date Collected: 02/15/22 15:36
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:23	CH	XEN MID

Client Sample ID: BH07A
Date Collected: 02/15/22 15:41
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19724	02/18/22 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20289	02/26/22 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20556	02/28/22 18:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20572	02/28/22 20:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19794	02/18/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19891	02/21/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:29	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Client Sample ID: BH07B

Date Collected: 02/15/22 15:45
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	19725	02/24/22 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20287	02/25/22 16:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20370	02/25/22 20:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19992	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19826	02/18/22 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/19/22 23:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:36	CH	XEN MID

Client Sample ID: BH08

Date Collected: 02/15/22 16:12
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	19725	02/24/22 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20287	02/25/22 16:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20370	02/25/22 20:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19992	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19826	02/18/22 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/20/22 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:42	CH	XEN MID

Client Sample ID: BH08A

Date Collected: 02/15/22 16:16
Date Received: 02/16/22 11:07

Lab Sample ID: 890-1960-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19725	02/24/22 09:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20287	02/25/22 17:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20370	02/25/22 20:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19992	02/21/22 19:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19826	02/18/22 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19863	02/20/22 00:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19805	02/18/22 10:30	CH	XEN MID
Soluble	Analysis	300.0		1			19939	02/22/22 11:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: NoCaster 19

Job ID: 890-1960-1
SDG: 31402309.16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1960-1	BH01	Solid	02/15/22 11:42	02/16/22 11:07	1
890-1960-2	BH01A	Solid	02/15/22 11:54	02/16/22 11:07	3
890-1960-3	BH01B	Solid	02/15/22 12:00	02/16/22 11:07	5
890-1960-4	BH02	Solid	02/15/22 12:09	02/16/22 11:07	1
890-1960-5	BH02A	Solid	02/15/22 12:16	02/16/22 11:07	3
890-1960-6	BH02B	Solid	02/15/22 12:21	02/16/22 11:07	5
890-1960-7	BH03	Solid	02/15/22 12:29	02/16/22 11:07	1
890-1960-8	BH03A	Solid	02/15/22 12:34	02/16/22 11:07	3
890-1960-9	BH03B	Solid	02/15/22 12:39	02/16/22 11:07	5
890-1960-10	BH04	Solid	02/15/22 12:51	02/16/22 11:07	1
890-1960-11	BH04A	Solid	02/15/22 12:57	02/16/22 11:07	3
890-1960-12	BH04B	Solid	02/15/22 13:01	02/16/22 11:07	5
890-1960-13	BH05	Solid	02/15/22 15:57	02/16/22 11:07	1
890-1960-14	BH05A	Solid	02/15/22 16:01	02/16/22 11:07	3
890-1960-15	BH05B	Solid	02/15/22 16:04	02/16/22 11:07	5
890-1960-16	BH06	Solid	02/15/22 15:16	02/16/22 11:07	1
890-1960-17	BH06A	Solid	02/15/22 15:25	02/16/22 11:07	3
890-1960-18	BH06B	Solid	02/15/22 15:30	02/16/22 11:07	5
890-1960-19	BH07	Solid	02/15/22 15:36	02/16/22 11:07	1
890-1960-20	BH07A	Solid	02/15/22 15:41	02/16/22 11:07	3
890-1960-21	BH07B	Solid	02/15/22 15:45	02/16/22 11:07	5
890-1960-22	BH08	Solid	02/15/22 16:12	02/16/22 11:07	1
890-1960-23	BH08A	Solid	02/15/22 16:16	02/16/22 11:07	2

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 3

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments

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

Project Name:	NoCaster 19	Turn Around	
Project Number:	31402909.16	Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.6/2.4	Thermometer ID	TWM-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

890-1960 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
BH01	S	02/15/22	11:42	1	1	X	X	X	DISCRETE
BH01A	S	02/15/22	11:54	3	1	X	X	X	DISCRETE
BH01B	S	02/15/22	12:00	5	1	X	X	X	DISCRETE
BH02	S	02/15/22	12:09	1	1	X	X	X	DISCRETE
BH02A	S	02/15/22	12:16	3	1	X	X	X	DISCRETE
BH02B	S	02/15/22	12:21	5	1	X	X	X	DISCRETE
BH03	S	02/15/22	12:29	1	1	X	X	X	DISCRETE
BH03A	S	02/15/22	12:34	3	1	X	X	X	DISCRETE
BH03B	S	02/15/22	12:39	5	1	X	X	X	DISCRETE
BH04	S	02/15/22	12:51	1	1	X	X	X	DISCRETE

Work Order Notes

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

Sample Comments

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	pbenner	Clue Cuzo	2.16.22 1107	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 3

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments

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

Project Name:	NoCaster 19	Turn Around	
Project Number:	31402909.16	Routine	☐
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	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

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
BH04A	S	02/15/22	12:57	3	1	X	X	X	DISCRETE
BH04B	S	02/15/22	13:01	5	1	X	X	X	DISCRETE
BH05	S	02/15/22	15:57	1	1	X	X	X	DISCRETE
BH05A	S	02/15/22	16:01	3	1	X	X	X	DISCRETE
BH05B	S	02/15/22	16:04	5	1	X	X	X	DISCRETE
BH06	S	02/15/22	15:16	1	1	X	X	X	DISCRETE
BH06A	S	02/15/22	15:25	3	1	X	X	X	DISCRETE
BH06B	S	02/15/22	15:30	5	1	X	X	X	DISCRETE
BH07	S	02/15/22	15:36	1	1	X	X	X	DISCRETE
BH07A	S	02/15/22	15:41	3	1	X	X	X	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 pbenner	[signature]	2.16.22 1107	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Eurofins 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: 890-628 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1960-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 2/22/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: NoCaster 19	Project #: 89000048			
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 Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH01 (890-1960-1)	2/15/22	11 42 Mountain		Solid			X	X	X	X	X	1	
BH01A (890-1960-2)	2/15/22	11 54 Mountain		Solid			X	X	X	X	X	1	
BH01B (890-1960-3)	2/15/22	12 00 Mountain		Solid			X	X	X	X	X	1	
BH02 (890-1960-4)	2/15/22	12 09 Mountain		Solid			X	X	X	X	X	1	
BH02A (890-1960-5)	2/15/22	12 16 Mountain		Solid			X	X	X	X	X	1	
BH02B (890-1960-6)	2/15/22	12 21 Mountain		Solid			X	X	X	X	X	1	
BH03 (890-1960-7)	2/15/22	12 29 Mountain		Solid			X	X	X	X	X	1	
BH03A (890-1960-8)	2/15/22	12 34 Mountain		Solid			X	X	X	X	X	1	
BH03B (890-1960-9)	2/15/22	12 39 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central 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 Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central 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	Date/Time	Company	Received by	Date/Time	Company
1	Chee Cerp 2-16-22					
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/17/22	Company
3	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.

Ver: 06/08/2021

Eurofins 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: 890-628 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1960-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 2/22/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: NoCaster 19	Project #: 89000048			
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 Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note
			Preservation Code:										
BH04 (890-1960-10)	2/15/22	12 51 Mountain		Solid			X	X	X	X	X	1	
BH04A (890-1960-11)	2/15/22	12 57 Mountain		Solid			X	X	X	X	X	1	
BH04B (890-1960-12)	2/15/22	13 01 Mountain		Solid			X	X	X	X	X	1	
BH05 (890-1960-13)	2/15/22	15 57 Mountain		Solid			X	X	X	X	X	1	
BH05A (890-1960-14)	2/15/22	16 01 Mountain		Solid			X	X	X	X	X	1	
BH05B (890-1960-15)	2/15/22	16 04 Mountain		Solid			X	X	X	X	X	1	
BH06 (890-1960-16)	2/15/22	15 16 Mountain		Solid			X	X	X	X	X	1	
BH06A (890-1960-17)	2/15/22	15 25 Mountain		Solid			X	X	X	X	X	1	
BH06B (890-1960-18)	2/15/22	15 30 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, 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 Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central 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	Date/Time	Company	Received by	Date/Time	Company
1	Clae Cap 2·16·22	Date/Time:	Company	Received by: P Kramer	Date/Time:	Company
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
3	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:

Ver: 06/08/2021

Eurofins 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: 890-628 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1960-1
Address: 1211 W Florida Ave	Due Date Requested: 2/22/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: NoCaster 19	Project #: 89000048			
Site:	SSOW#:			

Analysis Requested

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:

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 Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH07 (890-1960-19)	2/15/22	15 36 Mountain		Solid			X	X	X	X	X	1	
BH07A (890-1960-20)	2/15/22	15 41 Mountain		Solid			X	X	X	X	X	1	
BH07B (890-1960-21)	2/15/22	15 45 Mountain		Solid			X	X	X	X	X	1	
BH08 (890-1960-22)	2/15/22	16 12 Mountain		Solid			X	X	X	X	X	1	
BH08A (890-1960-23)	2/15/22	16 16 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central 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 Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central 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	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Clue Crisp 2.14.22			Received by: J Kramer		
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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1960-1
SDG Number: 31402309.16

Login Number: 1960
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1960-1
SDG Number: 31402309.16

Login Number: 1960
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 02/17/22 01:10 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.	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	

ATTACHMENT 5: FORM C-141

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride 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		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

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

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:

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 8/31/2021

L48 Spill Volume Estimate Form

NAPP2124350596

lity Name & Number:	NOCASTER 19 FEDERAL #4H BATTERY (LEASE #NM68820)
Asset Area:	NDBE - DB EAST ROUTE
Release Discovery Date & Time:	8/19/21 @ 11:00PM
Release Type:	Oil
Provide any known details about the event:	BLEW DIAPHRAM ON PRODUCTION KO OIL DUMP WHICH CAUSED THE DUMP VALVE NOT TO OPEN AND FILLED KO THEN FILLED SCRUBBER AND WENT OUT FLARE LINE. HEAT FROM FLARE FIRE SOFTENED THE WATER TRANSFER POLY LINE CAUSING IT TO RESULTING IN THE MIXTURE OF FLUIDS
Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	50.0	30.0	0.38	15.12%	8.344	1.262			
Rectangle B	30.0	4.0	0.75	15.12%	1.335	0.202			
Rectangle C	30.0	3.5	0.63	15.12%	0.973	0.147			
Rectangle D	30.0	3.0	0.50	15.12%	0.668	0.101			
Rectangle E	30.0	2.5	0.38	15.12%	0.417	0.063			
Rectangle F	30.0	2.0	0.25	15.12%	0.223	0.034			
Rectangle G	10.0	1.5	0.19	15.12%	0.042	0.006			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
					0.000	0.000			
					Total Volume Release:	1.815			

Incident ID	NAPP2124350596
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?	>100 (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.

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2124350596
District RP	
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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais II Date: 03/25/2022

email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2124350596
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: Charles Beauvais Title: Senior Environmental Engineer
Signature: Charles R. Beauvais II Date: 03/25/2022

email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2124350596
District RP	
Facility ID	
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Printed Name: Charles Beauvais Title: Senior Environmental Engineer
Signature: Charles R. Beauvais II Date: 03/25/2022

email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: Robert Hamlet Date: 8/1/2022

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

Signature: Robert Hamlet Date: 8/1/2022

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 101129

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 101129
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH. Confirmation samples should be collected every 200 ft2. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Also in the pasture area, 4 feet below ground surface; soil contamination limits revert back to Table 1 in the spill rule and need to meet closure criteria standards for proven depth to water determination. The work will need to occur in 90 days after the work plan has been approved.	8/1/2022