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

November 11, 2021

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

RE: Closure Request
Fez Fee 011H
Incident Number NAPP2118732077
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of COG Operating, LLC (COG), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Fez Fee 011H (Site) located in Unit D, Section 09, Township 25 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, COG is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2118732077.

RELEASE BACKGROUND

On June 22, 2021, a hole formed in the riser due to internal corrosion, resulting in the release of approximately 8 barrels (bbls) of produced water onto the pipeline right-of-way (ROW) and adjacent pasture. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and subsequently submitted a Release Notification and Corrective Action Form C-141 (Form C-141) on July 6, 2021. The release was assigned Incident Number NAPP2118732077.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 02388, located approximately 0.84 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 165 feet bgs and a total depth of 180 feet bgs. Ground surface

elevation at the groundwater well location is 4,443 feet amsl, which is approximately 225 feet higher in elevation than the Site.

On November 1, 2021, in an effort to confirm depth to water in the area, a borehole (BH01) was advanced to a depth of 105 feet bgs via air rotary drilling rig. The borehole was located approximately 295 feet northwest of the Site. The location of borehole BH01 is provided on Figure 1. An WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is a precipitation fed stock pond, located approximately 0.81 miles east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

A reclamation closure standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On August 19, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent from a depth

of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS01 and SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and reclamation standard. Laboratory analytical results for preliminary soil sample SS02 indicated that chloride concentrations exceeded the reclamation standard. Based on visible staining in the release area and preliminary soil sample laboratory analytical results, delineation and excavation activities were scheduled.

DELINEATION ACTIVITIES AND SOIL SAMPLE ANALYTICAL RESULTS

Between October 6, 2021 and October 18, 2021, WSP personnel were at the Site to oversee delineation and excavation activities. Potholes were advanced via backhoe at seven locations within and around the release extent to assess the lateral and vertical extent of impacted soil. Potholes PH01 through PH07 were advanced to depths ranging from 3 feet to 4 feet bgs. Delineation soil samples were collected every 1 foot from each pothole. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 1. The pothole and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for delineation samples from potholes PH05 through PH07, advanced within the release extent, indicated that chloride concentrations exceeded the reclamation standard in the top four feet. Laboratory analytical results for the delineation samples from potholes PH01 through PH04, advanced around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and reclamation standard, and successfully defined the extent of the release.

EXCAVATION ACTIVITIES AND SOIL SAMPLE ANALYTICAL RESULTS

Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary and delineation soil samples. Excavation activities were performed using track hoe, transport vehicle, and hydrovac. The excavation occurred within the ROW. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in Attachment 2.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. Composite soil samples FS01 through FS04 were collected from the floor of the excavation from a depth of 4 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area totaled approximately 771 square feet. A total of approximately 114 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at R30 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

Laboratory analytical results for excavation sidewall samples SW01 through SW04 and excavation floor samples FS01 through FS04, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standard in samples collected from the top four feet of the subsurface. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted to address the June 22, 2021 release of produced water at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, soil samples collected in the pasture from the top four feet of the subsurface were compliant with the reclamation standard. Based on the soil sample analytical results, no further remediation is required. COG backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and COG believe these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests no further action for Incident Number NAPP2118732077. The finalized version of the Form C-141 is included in Attachment 4.

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

Sincerely,

WSP USA Inc.

Kalei Jennings
Associate Consultant

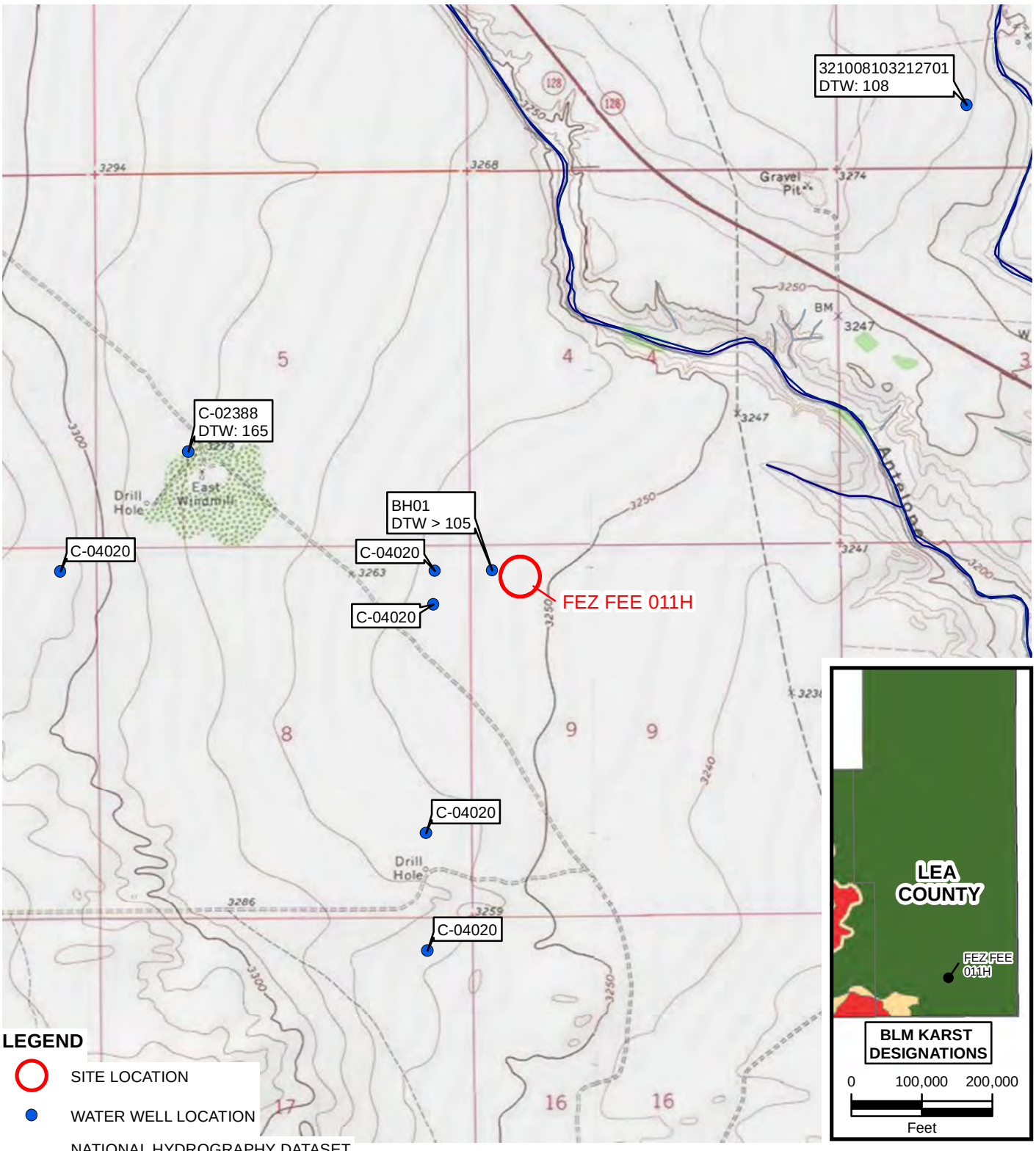
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kelsy Waggaman, COG Operating, LLC

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Lithologic/Sampling Log
Attachment 2	Photographic Log
Attachment 3	Laboratory Analytical Reports
Attachment 4	Final C-141

FIGURES



LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: INCIDENT NUMBER NAPP2118732077
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
FEZ FEE 011H
UNIT D SEC 9 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.110_FEZ FEE 011H\MXD\31402909.110_FIG01_SL_RECEPTOR_2021.mxd

LEGEND

- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- WATER LINE
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NAPP2118732077
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
FEZ FEE 011H
UNIT D SEC 9 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.110_FEZ FEE 011H\MXD\31402909.110_FIG02_PRELIMINARY_2021.mxd

LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- WATER LINE
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NAPP2118732077
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
FEZ FEE 011H
UNIT D SEC 9 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.110_FEZ FEE 011H\MXD\31402909.110_FIG03_DELINEATION_2021.mxd

LEGEND

- RELEASE LOCATION
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- WATER LINE
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2118732077
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
FEZ FEE 011H
UNIT D SEC 9 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31402909.110_FEZ FEE 011H\MXD\31402909.110_FIG04_EXCAVATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
Fez Fee 011H
Incident Number NAPP2118732077
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
Surface Samples										
SS01	08/19/2021	0.5	0.00215	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	62.8*
SS02	08/19/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**841***
SS03	08/19/2021	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	102*
Delineation Samples										
PH01	10/05/2021	1	<0.00202	0.00437	<49.9	<49.9	<49.9	<49.9	<49.9	16.4*
PH01A	10/05/2021	2	<0.00201	<0.00402	59.4	<49.8	<49.8	59.4	59.4	16.7*
PH01B	10/05/2021	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	76.8*
PH02	10/05/2021	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	13.9*
PH02A	10/05/2021	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	12.1*
PH02B	10/05/2021	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	9.59*
PH03	10/05/2021	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	11.2*
PH03A	10/05/2021	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	8.33*
PH03B	10/05/2021	3	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	8.14*
PH03C	10/05/2021	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	10.4
PH04	10/05/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7.62*
PH04A	10/05/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	9.41*
PH04B	10/05/2021	3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	8.27*
PH04C	10/05/2021	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	10.5

Table 1

Soil Analytical Results
Fez Fee 011H
Incident Number NAPP2118732077
Concho 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
PH05	10/05/2021	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	15.8*
PH05A	10/05/2021	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	18.4*
PH05B	10/05/2021	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	**727***
PH05C	10/05/2021	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	585
PH06	10/05/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	140*
PH06A	10/05/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	**859***
PH06B	10/05/2021	3	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**7,480***
PH06C	10/05/2021	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,110
PH07	10/05/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**640***
PH07A	10/05/2021	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	**722***
PH07B	10/05/2021	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	**5,020***
PH07C	10/05/2021	4	<0.00198	<0.00397	<49.9	53.1	<49.9	53.1	53.1	487
Excavation Floor Samples										
FS01	10/18/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,390
FS02	10/18/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6,560
FS03	10/18/2021	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	6,560
FS04	10/18/2021	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	1,360

Table 1

Soil Analytical Results
Fez Fee 011H
Incident Number NAPP2118732077
Concho 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
Excavation Sidewall Samples										
SW01	10/18/2021	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	188*
SW02	10/18/2021	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126*
SW03	10/18/2021	0 - 4	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	163*
SW04	10/18/2021	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	36.9*

Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Text impacted soil was excavated

* - indicates a reclamation closure criteria of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

ATTACHMENT 1: LITHOLOGIC/SOIL SAMPLING LOG

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: BH01 | Date: 11-01-2021
Site Name: Fez Fee 011H
RP or Incident Number: NAPP2118732077
WSP Job Number: 31402909.110

LITHOLOGIC / SOIL SAMPLING LOG

Logged By | Method: Air Rotery
Lat/Long: 32.15092, -103.37879 | Field Screening: N/A | Hole Diameter: 6" | Total Depth: 105' | Depth to Water:

Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
D					0-2	1	CCHE	CALICHE, DRY, OFF-WHITE TO TAN, WELL CONSOLIDATED, SOME REDDISH-BROWN FINE GRAINED SAND, NO STAIN, NO ODOR	
					2-7	2		SAND ABSENT, MODERATELY-POORLY CONSOLIDATED, VERY SILTY	
						3			
						4			
						5			
						6			
M					7-18	7	SW-S	SANDSTONE, MOIST, BROWN-LIGHT BROWN POORLY-MODERATELY CONSOLIDATED, WELL GRADED, FINE-MEDIUM GRAINED, TRACE-SUBANGULAR GRAVEL, NO STAIN, NO ODOR	
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
M					18-43	18	SP-S	SANDSTONE, MOIST, TAN-LIGHT BROWN, MODERATELY CONSOLIDATED, POORLY-GRADED, FINE GRAIN, TRACE SMALL OFF-WHITE COBBLE, NO STAIN, NO ODOR	
						19			
						20			
						21			
						22			
						23			
						24			
						25			

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: BH01 | Date: 11-01-2021
Site Name: Fez Fee 011H
RP or Incident Number: NAPP2118732077
WSP Job Number: 31402909.110

LITHOLOGIC / SOIL SAMPLING LOG

Logged By | Method: Air Rotery
Lat/Long: 32.15092, -103.37879 | Field Screening: N/A | Hole Diameter: 6" | Total Depth: 105' | Depth to Water:

Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
M					18-43	26	SP-S	SANDSTONE, MOIST, TAN-LIGHT BROWN, MODERATELY CONSOLIDATED, POORLY-GRADED, FINE GRAIN, TRACE SMALL OFF-WHITE COBBLE, NO STAIN, NO ODOR	
						27			
						28			
						29			
						30			
						31			
					32-43	32		SOME OFF-WHITE GREY, ROUNDED, SMALL GRAVEL	
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			
						41			
						42			
					43-48	43	SW-S	SANDSTONE, DRY, OFF-WHITE TO LIGHT GREY, MODERATLEY-WELL CONSOLIDATED, FINE-VERY FINE GRAIN, WELL GRADED, NO STAIN, NO ODOR	
						44			
						45			
						46			
						47			
					48-52	48	SW-S	SANDSTONE, DRY, LIGHT BROWN-LIGHT YELLOW, MODERATELY-WELL CONSOLIDATED, FINE-MEDIUM GRAIN, WELL GRADED NO STAIN, NO ODOR	
						49			
						50			

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: BH01	Date: 11-01-2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By		Method: Air Rotery	
Lat/Long: 32.15092, -103.37879	Field Screening: N/A	Hole Diameter: 6"	Total Depth: 105'
			Depth to Water:

Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
D					51	51	SW-S		
D					52-58	52	SW-S	SANDSTONE, DRY, OFF-WHITE TO TAN, MODERATE-WELL CONSOLIDATED, WELL-GRADED, FINE GRAIN, NO STAIN, NO ODOR	
						53			
						54			
						55			
						56			
						57			
D					58-101	58	SW-S	SANDSTONE, DRY, BROWN-LIGHT BROWN, MODERATLEY CONSOLIDATED, WELL GRADED FINE-MEDUIM GRAIN, NO STAIN, NO ODOR	
						59			
						60			
						61			
						62			
						63			
						64			
						65			
						66			
						67			
						68			
						69			
						70			
						71			
						72			
						73			
						74		BEGIN ADDING WATER DOWNHOLE TO COOL OFF THE DRILL BIT	
						75			

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: BH01	Date: 11-01-2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By		Method: Air Rotery	
Lat/Long: 32.15092, -103.37879	Field Screening: N/A	Hole Diameter: 6"	Total Depth: 105'
			Depth to Water:

Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						76	SW-S		
						77			
						78			
						79			
						80			
						81			
						82			
						83			
						84			
						85			
						86			
						87			
						88			
						89			
						90			
						91			
						92			
						93			
						94			
					95-100	95		VERY FINE GRAIN	
						96			
						97			
						98			
						99			
						100			

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: BH01	Date: 11-01-2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By		Method: Air Rotery	
Lat/Long: 32.15092, -103.37879	Field Screening: N/A	Hole Diameter: 6"	Total Depth: 105'
			Depth to Water:

Backfill or Well Construction Materials / Comments: Temporary 2" monitoring well set at 107' bgs, screen from 107-87', Borehole sealed at the surface to prevent runoff

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
M					101-107	101 102 103 104 105 106 107	CH-S	CLAYSTONE, MOIST, DARK REDDISH BROWN, WELL CONSOLIDATED, HIGH PLASTICITY, COHESIVE, TRACE VERY FINE GRAIN SAND, NO STAIN, NO ODOR	

TD @ 107 FT BGS

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH01 | Date: 10/05/2021

Site Name: Fez Fee 011H

RP or Incident Number: NAPP2118732077

WSP Job Number: 31402909.110

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS | Method: Backhoe

Lat/Long: 32.150975, -103.378855 | Field Screening: Hach chloride strips, PID | Hole Diameter: NA | Total Depth: 3 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<179	0.1	N			0.5	SP	0-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain no stain, no odor
D	<179	0.2	N	PH01	1	1		
D	<179	1.0	N	PH01A	2	2		
D	<179	0.6	N	PH01B	3	3	CCHE	3' CALICHE, dry, tan-off white, well consolidated, no stain, no odor

Backhoe refusal @ 3 feet bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH02 | Date: 10/05/2021

Site Name: Fez Fee 011H

RP or Incident Number: NAPP2118732077

WSP Job Number: 31402909.110

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS | Method: Backhoe

Lat/Long: 32.150881, -103.378675 | Field Screening: Hach chloride strips, PID | Hole Diameter: NA | Total Depth: 3 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<179	0	N			0.5	SP	0-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain no stain, no odor
D	<179	0.4	N	PH02	1	1		
D	<179	0.4	N	PH02A	2	2		
D	<179	0.2	N	PH02B	3	3	CCHE	3' CALICHE, dry, tan-off white, well consolidated, no stain, no odor

Backhoe refusal @ 3 feet bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH03	Date: 10/05/2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS	Method: Backhoe		
Lat/Long: 32.150772, -103.378754	Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 4 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<179	0.0	N			0.5	SP	0-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor
D	<179	0.6	N	PH03	1	1		
D	<179	0.3	N	PH03A	2	2		
D	<179	0.1	N	PH03B	3	3	CCHE	3-4' CALICHE, dry, tan-off white, well consolidated, no stain, no odor
D	<179	0.2	N	PH03C	4	4		

TD @ 4 feet bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH04	Date: 10/05/2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS	Method: Backhoe		
Lat/Long: 32.150868, -103.378950	Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 4 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<179	0.2	N			0.5	SP	0-4' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor
D	<179	0.5	N	PH04	1	1		
D	<179	0.2	N	PH04A	2	2		
D	<179	0.2	N	PH04B	3	3		
D	<179	0.1	N	PH04C	4	4	CCHE	4' CALICHE, dry, tan-off white, well consolidated, no stain, no odor

TD @ 4 feet bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH05	Date: 10/05/2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS	Method: Backhoe		
Lat/Long: 32.150918, -103.378899	Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 4 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			0	SP	0-4' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor
D	<179	0.4	N	PH05	1	1		
D	<179	0.6	N	PH05A	2	2		
D	834	0.4	N	PH05B	3	3	CCHE	3-10' CALICHE, dry, tan-off white, moderately consolidated, no no odor
D	963	0.4	N	PH05C	4	4		

TD @ 4 feet bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: PH06	Date: 10/05/2021
Site Name: Fez Fee 011H	
RP or Incident Number: NAPP2118732077	
WSP Job Number: 31402909.110	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: FS	Method: Backhoe		
Lat/Long: 32.150878, -103.378804	Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 4 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			0	SP	0-4' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor
D	212	0.6	N	PH06	1	1		
D	8,405	1.0	N	PH06A	2	2		
D	6,171	0.6	N	PH06B	3	3	CCHE	3-5.3' CALICHE, dry, tan-off white, moderately consolidated, no stain, no
D	5,700	0.9	N	PH06C	4	4		

TD @ 4 feet bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: PH07	Date: 10/05/2021
	Site Name: Fez Fee 011H	
	RP or Incident Number: NAPP2118732077	
	WSP Job Number: 31402909.110	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: FS	Method: Backhoe
Lat/Long: 32.150841, -103.378714 Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 4 feet bgs

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			0	SP	0-4' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor
D	504	0.6	N	PH07	1	1		
D	6,171	0.6	N	PH07A	2	2		
D	5,700	0.3	N	PH07B	3	3	CCHE	3-7' CALICHE, dry, tan-off white, moderately consolidated, no stain no odor
D	7,212	0.7	N	PH07C	4	4		

TD @ 4 feet bgs

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
COG Operating, LLC	Fez Fee 011H Lea County, NM	NAPP2118732077

Photo No.	Date
1	August 20, 2021

Northern view of point of release within pipeline right-of-way.

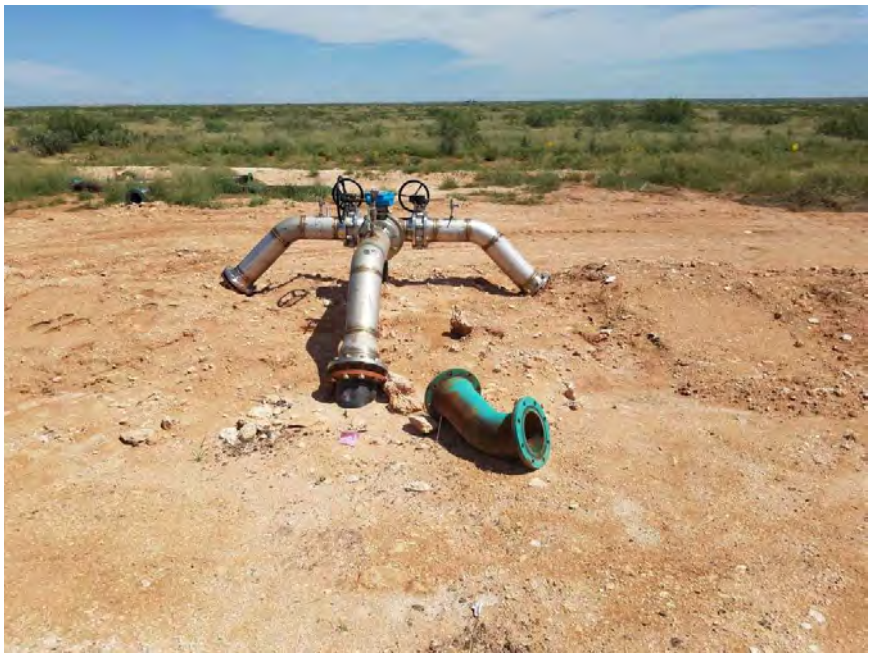


Photo No.	Date
2	August 20, 2021

Western view of release extent.

PHOTOGRAPHIC LOG		
COG Operating, LLC	Fez Fee 011H Lea County, NM	NAPP2118732077

Photo No.	Date
3	August 20, 2021

Eastern view of initial extent.

Photo No.	Date
4	October 6 – 18, 2021

Southern view of pothole PH01 during delineation activities.

PHOTOGRAPHIC LOG		
COG Operating, LLC	Fez Fee 011H Lea County, NM	NAPP2118732077

Photo No.	Date
5	October 6 – 18, 2021

Northern view of pothole PH02 during delineation activities.

Photo No.	Date
6	October 6 – 18, 2021

Southeastern view of excavation activities.

PHOTOGRAPHIC LOG		
COG Operating, LLC	Fez Fee 011H Lea County, NM	NAPP2118732077

Photo No.	Date
7	October 6 – 18, 2021

Eastern view of excavation.

Photo No.	Date
8	October 6 – 18, 2021

Final excavation facing west.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1133-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: Fez Fee #1

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/24/2021 4:29:11 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: Fez Fee #1

Laboratory Job ID: 890-1133-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1133-1
Project/Site: Fez Fee #1 SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
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: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Job ID: 890-1133-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1133-1

Receipt
The samples were received on 8/19/2021 2:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6784 and 880-6784 and analytical batch 880-6831 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-1133-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-1133-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6885 and analytical batch 880-6906 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: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Client Sample ID: SS01

Lab Sample ID: 890-1133-1

Date Collected: 08/19/21 12:05
Date Received: 08/19/21 14:41
Sample Depth: - 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00215**		0.00201		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/21 09:30	08/21/21 04:23	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/20/21 09:30	08/21/21 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*08/20/21 09:30*	*08/21/21 04:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/20/21 09:30*	*08/21/21 04:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		08/21/21 11:29	08/22/21 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/21/21 11:29	08/22/21 17:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/21/21 11:29	08/22/21 17:45	1
Total TPH	<50.0	U	50.0		mg/Kg		08/21/21 11:29	08/22/21 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/21/21 11:29*	*08/22/21 17:45*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/21/21 11:29*	*08/22/21 17:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.8**		5.00		mg/Kg			08/23/21 23:03	1

Client Sample ID: SS02

Lab Sample ID: 890-1133-2

Date Collected: 08/19/21 12:10
Date Received: 08/19/21 14:41
Sample Depth: - 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/21 09:30	08/21/21 05:45	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/20/21 09:30	08/21/21 05:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/20/21 09:30*	*08/21/21 05:45*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*08/20/21 09:30*	*08/21/21 05:45*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Client Sample ID: SS02

Lab Sample ID: 890-1133-2

Date Collected: 08/19/21 12:10
Date Received: 08/19/21 14:41
Sample Depth: - 0.5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/21/21 11:29	08/22/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/21/21 11:29	08/22/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/21/21 11:29	08/22/21 18:49	1
Total TPH	<49.9	U	49.9		mg/Kg		08/21/21 11:29	08/22/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/21/21 11:29*	*08/22/21 18:49*	*1*
o-Terphenyl	*129*		*70 - 130*	*08/21/21 11:29*	*08/22/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	841		5.01		mg/Kg			08/23/21 23:08	1

Client Sample ID: SS03

Lab Sample ID: 890-1133-3

Date Collected: 08/19/21 12:15
Date Received: 08/19/21 14:41
Sample Depth: - 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/20/21 09:30	08/21/21 06:06	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/20/21 09:30	08/21/21 06:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/20/21 09:30*	*08/21/21 06:06*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/20/21 09:30*	*08/21/21 06:06*	*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		08/21/21 11:29	08/22/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/21/21 11:29	08/22/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/21/21 11:29	08/22/21 19:10	1
Total TPH	<49.8	U	49.8		mg/Kg		08/21/21 11:29	08/22/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/21/21 11:29*	*08/22/21 19:10*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/21/21 11:29*	*08/22/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.05		mg/Kg			08/23/21 23:14	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

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)
890-1121-A-1-H MS	Matrix Spike	129	89
890-1121-A-1-I MSD	Matrix Spike Duplicate	90	86
890-1133-1	SS01	155 S1+	103
890-1133-2	SS02	101	60 S1-
890-1133-3	SS03	107	91
LCS 880-6784/1-A	Lab Control Sample	97	80
LCSD 880-6784/2-A	Lab Control Sample Dup	95	79
MB 880-6784/5-A	Method Blank	100	72
MB 880-6785/5-A	Method Blank	103	84

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)
890-1133-1	SS01	103	114
890-1133-1 MS	SS01	99	102
890-1133-1 MSD	SS01	107	108
890-1133-2	SS02	115	129
890-1133-3	SS03	88	102
LCS 880-6885/2-A	Lab Control Sample	125	133 S1+
LCSD 880-6885/3-A	Lab Control Sample Dup	121	128
MB 880-6885/1-A	Method Blank	108	124

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6784/5-A
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6784

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2enzene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
Eoluene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
htXylbenzene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
K-pylene s , -pylene	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
o-pylene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
pyleneBREotal	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1
Eotal 2Ehp	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 09:30	08/g1/g1 00:<3	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*		*+5 - 175*	*503853831 59/75*	*503813831 55/27*	*1*
1:4-, fluorobenzene (Surr)	*+8*		*+5 - 175*	*503853831 59/75*	*503813831 55/27*	*1*

Lab Sample ID: LCS 880-6784/1-A
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2enzene			0.100	0.08<g1		K4/T4		8<	C0 - 130		
Eoluene			0.100	0.0838O		K4/T4		8&	C0 - 130		
htXylbenzene			0.100	0.089(&		K4/T4		90	C0 - 130		
K-pylene s , -pylene			0.g00	0.1<33		K4/T4		CO	C0 - 130		
o-pylene			0.100	0.0C(<0		K4/T4		CO	C0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*9+*		*+5 - 175*
1:4-, fluorobenzene (Surr)	*05*		*+5 - 175*

Lab Sample ID: LCSD 880-6784/2-A
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2enzene			0.100	0.09&&g		K4/T4		9&	C0 - 130	10	3<
Eoluene			0.100	0.0C<1&		K4/T4		C<	C0 - 130	11	3<
htXylbenzene			0.100	0.08&01		K4/T4		8&	C0 - 130	(	3<
K-pylene s , -pylene			0.g00	0.1&11		K4/T4		C1	C0 - 130	8	3<
o-pylene			0.100	0.0Cg&1		K4/T4		Cg	C0 - 130	(	3<

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*+5 - 175*
1:4-, fluorobenzene (Surr)	*+9*		*+5 - 175*

Lab Sample ID: 890-1121-A-1-H MS
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2enzene	m0.00199	U F1	0.100	0.0&<8(	F1	K4/T4		&(	C0 - 130		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

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

Lab Sample ID: 890-1121-A-1-H MS
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Eoluene	m0.00199	U F1	0.100	0.0(O&8	F1	K4/T4		(O	C0 - 130		
htXylbenzene	m0.00199	U Fg F1	0.100	0.0C809		K4/T4		C8	C0 - 130		
K-pylene s , -pylene	m0.00398	U Fg F1	0.g00	0.1318	F1	K4/T4		((	C0 - 130		
o-pylene	m0.00199	U Fg F1	0.100	0.0(1O<	F1	K4/T4		(g	C0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*189*		*+5 - 175*
1:4-, fluorobenzene (Surr)	*09*		*+5 - 175*

Lab Sample ID: 890-1121-A-1-I MSD
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2enzene	m0.00199	U F1	0.0998	0.0&<(1	F1	K4/T4		&(	C0 - 130	1	3<
Eoluene	m0.00199	U F1	0.0998	0.0&C88	F1	K4/T4		&8	C0 - 130	3&	3<
htXylbenzene	m0.00199	U Fg F1	0.0998	0.0&&g9	Fg F1	K4/T4		&&	C0 - 130	&9	3<
K-pylene s , -pylene	m0.00398	U Fg F1	0.g00	0.0CC0<	Fg F1	K4/T4		39	C0 - 130	<g	3<
o-pylene	m0.00199	U Fg F1	0.0998	0.03(gg	Fg F1	K4/T4		3(	C0 - 130	<g	3<

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*+5 - 175*
1:4-, fluorobenzene (Surr)	*0i*		*+5 - 175*

Lab Sample ID: MB 880-6785/5-A
Matrix: Solid
Analysis Batch: 6831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6785

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2enzene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
Eoluene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
htXylbenzene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
K-pylene s , -pylene	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
o-pylene	m0.00g00	U	0.00g00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
pyleneBREotal	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1
Eotal 2Ehp	m0.00&00	U	0.00&00		K4/T4		08/g0/g1 0C:30	08/g0/g1 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*		*+5 - 175*	*503853831 5+/75*	*503853831 11/11*	*1*
1:4-, fluorobenzene (Surr)	*04*		*+5 - 175*	*503853831 5+/75*	*503853831 11/11*	*1*

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-6885/1-A
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6885

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GaBoline 5an4e 7 r4anicB vG5 7 HC(-C10	m<0.0	U	<0.0		K4/T4		08/g1/g1 11:g9	08/gg/g1 1(:&1	1
DieBel 5an4e 7 r4anicBv7 f er C10-Cg8H	m<0.0	U	<0.0		K4/T4		08/g1/g1 11:g9	08/gg/g1 1(:&1	1
7 Il 5an4e 7 r4anicBv7 f er Cg8-C3(H	m<0.0	U	<0.0		K4/T4		08/g1/g1 11:g9	08/gg/g1 1(:&1	1
Eotal EPd	m<0.0	U	<0.0		K4/T4		08/g1/g1 11:g9	08/gg/g1 1(:&1	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*		*+5 - 175*	*503813 81 11/89*	*503883 81 1i /41*	*1*
o-Terphenyl	*184*		*+5 - 175*	*503813 81 11/89*	*503883 81 1i /41*	*1*

Lab Sample ID: LCS 880-6885/2-A
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6885

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GaBoline 5an4e 7 r4anicB vG5 7 HC(-C10			1000	11<O		K4/T4		11(	C0 - 130		
DieBel 5an4e 7 r4anicBv7 f er C10-Cg8H			1000	10&0		K4/T4		10&	C0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*182*		*+5 - 175*
o-Terphenyl	*177*	*S16*	*+5 - 175*

Lab Sample ID: LCSD 880-6885/3-A
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6885

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GaBoline 5an4e 7 r4anicB vG5 7 HC(-C10			1000	99(.1		K4/T4		100	C0 - 130	1<	g0
DieBel 5an4e 7 r4anicBv7 f er C10-Cg8H			1000	99<.&		K4/T4		100	C0 - 130	&	g0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*181*		*+5 - 175*
o-Terphenyl	*180*		*+5 - 175*

Lab Sample ID: 890-1133-1 MS
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 6885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GaBoline 5an4e 7 r4anicB vG5 7 HC(-C10	m<0.0	U F1	99<	1&g3	F1	K4/T4		1&1	C0 - 130		
DieBel 5an4e 7 r4anicBv7 f er C10-Cg8H	m<0.0	U	99<	80(.<		K4/T4		81	C0 - 130		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

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

Lab Sample ID: 890-1133-1 MS
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 6885

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		+5 - 175
o-Terphenyl	158		+5 - 175

Lab Sample ID: 890-1133-1 MSD
Matrix: Solid
Analysis Batch: 6906

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 6885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GaBoline 5 an4e 7 r4anicB vG5 7 HC(-C10	m<0.0	U F1	998	1gCO		K 4/T4		1g(	C0 - 130	11	g0
DieBel 5 an4e 7 r4anicB v7 f er C10-Cg8H	m<0.0	U	998	888.<		K 4/T4		89	C0 - 130	10	g0

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	15+		+5 - 175
o-Terphenyl	150		+5 - 175

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6877/1-A
Matrix: Solid
Analysis Batch: 6948

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
CXlori6e	m<.00	U	<.00		K 4/T4			08/g3/g1 g1:<0	1

Lab Sample ID: LCS 880-6877/2-A
Matrix: Solid
Analysis Batch: 6948

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
CXlori6e			g<0	gO1.<		K 4/T4		109	90 - 110		

Lab Sample ID: LCSD 880-6877/3-A
Matrix: Solid
Analysis Batch: 6948

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
CXlori6e			g<0	gO1.<		K 4/T4		109	90 - 110	0	g0

Lab Sample ID: 880-5282-A-3-D MS
Matrix: Solid
Analysis Batch: 6948

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
CXlori6e	&3.0		g<0	300.1		K 4/T4		103	90 - 110		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5282-A-3-E MSD
Matrix: Solid
Analysis Batch: 6948

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
CXlori6e	&3.0		g<0	300.<		K4/T4		103	90 - 110	0	g0

huro)inB pencoRCarlBba6

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

GC VOA

Prep Batch: 6784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Total/NA	Solid	5035	
890-1133-2	SS02	Total/NA	Solid	5035	
890-1133-3	SS03	Total/NA	Solid	5035	
MB 880-6784/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6784/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6784/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1121-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-1121-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Total/NA	Solid	8021B	6784
890-1133-2	SS02	Total/NA	Solid	8021B	6784
890-1133-3	SS03	Total/NA	Solid	8021B	6784
MB 880-6784/5-A	Method Blank	Total/NA	Solid	8021B	6784
MB 880-6785/5-A	Method Blank	Total/NA	Solid	8021B	6785
LCS 880-6784/1-A	Lab Control Sample	Total/NA	Solid	8021B	6784
LCSD 880-6784/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6784
890-1121-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	6784
890-1121-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6784

GC Semi VOA

Prep Batch: 6885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Total/NA	Solid	8015NM Prep	
890-1133-2	SS02	Total/NA	Solid	8015NM Prep	
890-1133-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-6885/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6885/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6885/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1133-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-1133-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Total/NA	Solid	8015B NM	6885
890-1133-2	SS02	Total/NA	Solid	8015B NM	6885
890-1133-3	SS03	Total/NA	Solid	8015B NM	6885
MB 880-6885/1-A	Method Blank	Total/NA	Solid	8015B NM	6885
LCS 880-6885/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6885
LCSD 880-6885/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6885
890-1133-1 MS	SS01	Total/NA	Solid	8015B NM	6885
890-1133-1 MSD	SS01	Total/NA	Solid	8015B NM	6885

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 6877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Soluble	Solid	DI Leach	
890-1133-2	SS02	Soluble	Solid	DI Leach	
890-1133-3	SS03	Soluble	Solid	DI Leach	
MB 880-6877/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6877/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6877/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5282-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5282-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1133-1	SS01	Soluble	Solid	300.0	6877
890-1133-2	SS02	Soluble	Solid	300.0	6877
890-1133-3	SS03	Soluble	Solid	300.0	6877
MB 880-6877/1-A	Method Blank	Soluble	Solid	300.0	6877
LCS 880-6877/2-A	Lab Control Sample	Soluble	Solid	300.0	6877
LCSD 880-6877/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6877
880-5282-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	6877
880-5282-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6877

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Client Sample ID: SS01

Date Collected: 08/19/21 12:05
Date Received: 08/19/21 14:41

Lab Sample ID: 890-1133-1

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			4.98 g	5 mL	6784	08/20/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 04:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6885	08/21/21 11:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6906	08/22/21 17:45	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6877	08/20/21 15:19	SC	XEN MID
Soluble	Analysis	300.0		1			6948	08/23/21 23:03	CH	XEN MID

Client Sample ID: SS02

Date Collected: 08/19/21 12:10
Date Received: 08/19/21 14:41

Lab Sample ID: 890-1133-2

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			5.02 g	5 mL	6784	08/20/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 05:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6885	08/21/21 11:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6906	08/22/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6877	08/20/21 15:19	SC	XEN MID
Soluble	Analysis	300.0		1			6948	08/23/21 23:08	CH	XEN MID

Client Sample ID: SS03

Date Collected: 08/19/21 12:15
Date Received: 08/19/21 14:41

Lab Sample ID: 890-1133-3

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			5.05 g	5 mL	6784	08/20/21 09:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/21/21 06:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6885	08/21/21 11:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6906	08/22/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6877	08/20/21 15:19	SC	XEN MID
Soluble	Analysis	300.0		1			6948	08/23/21 23:14	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee #1

Job ID: 890-1133-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1133-1	SS01	Solid	08/19/21 12:05	08/19/21 14:41	- 0.5
890-1133-2	SS02	Solid	08/19/21 12:10	08/19/21 14:41	- 0.5
890-1133-3	SS03	Solid	08/19/21 12:15	08/19/21 14:41	- 0.5

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Chain of Custody

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

Work Order No: ______

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Project Manager:	KALEI JENNINGS	Bill to: (if different)	CCG
Company Name:	WSP USA	Company Name:	
Address:	3300 N A St	Address:	
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	
Phone:	817-683-2503	Email:	anna.byers@wsp.com

Work Order Comments

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

Project Name:	FEZ FEE #1	Turn Around	
Project Number:		☒ Routine	☐ Rush
Project Location:	LEA COUNTY	Due Date:	
Sampler's Name:	ANNA BYERS	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.0

ANALYSIS REQUEST — Pres. Code / Parameters

890-1133 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (EPA 8015 Mod)	BTEX (EPA 8021B)	Chloride (EPA 300.0)	Sample Comments
SS01	S	8/19/21	1205	0.5'	Grab	1	X	X	X	Incident ID: nAPP2116732587 +
SS02	S	8/19/21	1210	0.5'	Grab	1	X	X	X	Release Date:
SS03	S	8/19/21	1215	0.5'	Grab	1	X	X	X	6/22/21

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 SiO_2 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 Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna By	N. Ot	8/19/21 7:42	2			
3				4			
5				6			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1133-1
SDG Number: Lea County NM

Login Number: 1133
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: 890-1133-1
SDG Number: Lea County NM

Login Number: 1133
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 08/20/21 11:38 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	1.6/2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1402-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/19/2021 1:32:41 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: Fez Fee 011H

Laboratory Job ID: 890-1402-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Job ID: 890-1402-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1402-1

Receipt
The samples were received on 10/12/2021 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9467 and analytical batch 880-9527 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-9467/5-A) and (MB 880-9500/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9534 and analytical batch 880-9521 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-1402-A-2-C MS) and (890-1402-A-2-D MSD). Evidence of matrix interferences is not obvious.

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

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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Client Sample ID: PH02

Date Collected: 10/05/21 10:45
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1402-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 14:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 14:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 14:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/15/21 10:00	10/16/21 14:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 14:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/15/21 10:00	10/16/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*10/15/21 10:00*	*10/16/21 14:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/15/21 10:00*	*10/16/21 14:33*	*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			10/19/21 13:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/19/21 13:25	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		10/14/21 14:29	10/17/21 16:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/21 14:29	10/17/21 16:15	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/21 14:29	10/17/21 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*10/14/21 14:29*	*10/17/21 16:15*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/14/21 14:29*	*10/17/21 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		5.03		mg/Kg			10/18/21 17:17	1

Client Sample ID: PH02A

Date Collected: 10/05/21 10:49
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1402-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		10/15/21 14:17	10/17/21 19:10	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		10/15/21 14:17	10/17/21 19:10	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		10/15/21 14:17	10/17/21 19:10	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		10/15/21 14:17	10/17/21 19:10	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		10/15/21 14:17	10/17/21 19:10	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		10/15/21 14:17	10/17/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*10/15/21 14:17*	*10/17/21 19:10*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Client Sample ID: PH02A

Lab Sample ID: 890-1402-2
Matrix: Solid
Date Collected: 10/05/21 10:49
Date Received: 10/12/21 14:04
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/15/21 14:17*	*10/17/21 19:10*	*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			10/19/21 13:42	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			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/14/21 14:29	10/17/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/14/21 14:29	10/17/21 16:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 14:29	10/17/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/14/21 14:29*	*10/17/21 16:56*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/14/21 14:29*	*10/17/21 16:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		5.01	mg/Kg			10/18/21 17:22	1

Client Sample ID: PH02B

Lab Sample ID: 890-1402-3
Matrix: Solid
Date Collected: 10/05/21 10:55
Date Received: 10/12/21 14:04
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		10/15/21 14:17	10/17/21 19:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/15/21 14:17	10/17/21 19:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/15/21 14:17	10/17/21 19:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/15/21 14:17	10/17/21 19:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/15/21 14:17	10/17/21 19:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/15/21 14:17	10/17/21 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*10/15/21 14:17*	*10/17/21 19:30*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*10/15/21 14:17*	*10/17/21 19:30*	*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			10/19/21 13:42	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			10/19/21 13:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Client Sample ID: PH02B

Date Collected: 10/05/21 10:55
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1402-3

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	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 17:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:17*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.59		4.95		mg/Kg			10/18/21 17:28	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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)
890-1402-1	PH02	117	99
890-1402-2	PH02A	120	100
890-1402-2 MS	PH02A	152 S1+	106
890-1402-2 MSD	PH02A	194 S1+	15 S1-
890-1402-3	PH02B	88	125
890-1415-A-18-C MS	Matrix Spike	110	118
890-1415-A-18-D MSD	Matrix Spike Duplicate	58 S1-	91
LCS 880-9467/1-A	Lab Control Sample	84	88
LCS 880-9534/1-A	Lab Control Sample	102	106
LCSD 880-9467/2-A	Lab Control Sample Dup	95	102
LCSD 880-9534/2-A	Lab Control Sample Dup	101	107
MB 880-9462/5-A	Method Blank	111	95
MB 880-9467/5-A	Method Blank	55 S1-	94
MB 880-9500/5-A	Method Blank	55 S1-	92
MB 880-9534/5-A	Method Blank	109	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7052-A-1-F MS	Matrix Spike	98	93
880-7052-A-1-G MSD	Matrix Spike Duplicate	105	101
890-1402-1	PH02	105	114
890-1402-2	PH02A	94	103
890-1402-3	PH02B	90	97
LCS 880-9483/2-A	Lab Control Sample	84	85
LCSD 880-9483/3-A	Lab Control Sample Dup	92	94
MB 880-9483/1-A	Method Blank	104	117

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9462/5-A
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9462

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:35	10/16/21 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:35	10/16/21 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:35	10/16/21 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/21 12:35	10/16/21 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:35	10/16/21 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/21 12:35	10/16/21 23:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*5+ - 17+*	*1+01408 18/72*	*1+01308 87/84*	*1*
1:4-, Difluorobenzene (Surr)	*92*		*5+ - 17+*	*1+01408 18/72*	*1+01308 87/84*	*1*

Lab Sample ID: MB 880-9467/5-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9467

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*22*	*S1-*	*5+ - 17+*	*1+01208 1+/++*	*1+01308 1+/3/17*	*1*
1:4-, Difluorobenzene (Surr)	*94*		*5+ - 17+*	*1+01208 1+/++*	*1+01308 1+/3/17*	*1*

Lab Sample ID: LCS 880-9467/1-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9467

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.0R8R0		mg/Kg		R9	R0 - 130		
Toluene			0.100	0.08483		mg/Kg		85	R0 - 130		
Ethylbenzene			0.100	0.0R95R		mg/Kg		80	R0 - 130		
m-Xylene & p-Xylene			0.200	0.15R2		mg/Kg		R9	R0 - 130		
o-Xylene			0.100	0.08002		mg/Kg		80	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*i 4*		*5+ - 17+*
1:4-, Difluorobenzene (Surr)	*i i*		*5+ - 17+*

Lab Sample ID: LCSD 880-9467/2-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9467

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09138		mg/Kg		91	R0 - 130	15	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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

Lab Sample ID: LCSD 880-9467/2-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9467

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.0R925		mg/Kg		R9	R0 - 130	R	35
Ethylbenzene			0.100	0.08632		mg/Kg		86	R0 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1R25		mg/Kg		86	R0 - 130	9	35
o-Xylene			0.100	0.0885R		mg/Kg		89	R0 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*5+ - 17+*
1:4-, Difluorobenzene (Surr)	*1+8*		*5+ - 17+*

Lab Sample ID: 890-1415-A-18-C MS
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9467

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.0990	0.00R090	F1	mg/Kg		6	R0 - 130
Toluene	<0.00200	U F2 F1	0.0990	0.002898	F1	mg/Kg		2	R0 - 130
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.01519	F1	mg/Kg		15	R0 - 130
m-Xylene & p-Xylene	0.018R	F2 F1	0.198	0.03084	F1	mg/Kg		6	R0 - 130
o-Xylene	0.005R1	F2 F1	0.0990	0.01662	F1	mg/Kg		11	R0 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*11+*		*5+ - 17+*
1:4-, Difluorobenzene (Surr)	*11i*		*5+ - 17+*

Lab Sample ID: 890-1415-A-18-D MSD
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9467

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.100	0.04123	F2 F1	mg/Kg		40	R0 - 130	141	35
Toluene	<0.00200	U F2 F1	0.100	0.03695	F2 F1	mg/Kg		36	R0 - 130	1R1	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04090	F2 F1	mg/Kg		40	R0 - 130	92	35
m-Xylene & p-Xylene	0.018R	F2 F1	0.200	0.06099	F2 F1	mg/Kg		21	R0 - 130	66	35
o-Xylene	0.005R1	F2 F1	0.100	0.04052	F2 F1	mg/Kg		35	R0 - 130	84	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*2i*	*S1-*	*5+ - 17+*
1:4-, Difluorobenzene (Surr)	*91*		*5+ - 17+*

Lab Sample ID: MB 880-9500/5-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9500

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/21 16:10	10/15/21 16:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 16:10	10/15/21 16:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 16:10	10/15/21 16:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/21 16:10	10/15/21 16:20	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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

Lab Sample ID: MB 880-9500/5-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9500

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 16:10	10/15/21 16:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/21 16:10	10/15/21 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*22*	*S1-*	*5+ - 17+*	*1+0140 81 13/1+*	*1+0120 81 13/8+*	*1*
1:4-, Difluorobenzene (Surr)	*98*		*5+ - 17+*	*1+0140 81 13/1+*	*1+0120 81 13/8+*	*1*

Lab Sample ID: MB 880-9534/5-A
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9534

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 14:1R	10/1R/21 18:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1+9*		*5+ - 17+*	*1+0120 81 14/15*	*1+0150 81 1i /4i*	*1*
1:4-, Difluorobenzene (Surr)	*9i*		*5+ - 17+*	*1+0120 81 14/15*	*1+0150 81 1i /4i*	*1*

Lab Sample ID: LCS 880-9534/1-A
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1008		mg/Kg		101	R0 - 130		
Toluene			0.100	0.0916R		mg/Kg		92	R0 - 130		
Ethylbenzene			0.100	0.0899R		mg/Kg		90	R0 - 130		
m-Xylene & p-Xylene			0.200	0.1851		mg/Kg		93	R0 - 130		
o-Xylene			0.100	0.09500		mg/Kg		95	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*1+8*		*5+ - 17+*
1:4-, Difluorobenzene (Surr)	*1+3*		*5+ - 17+*

Lab Sample ID: LCSD 880-9534/2-A
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9534

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09648		mg/Kg		96	R0 - 130	4	35
Toluene			0.100	0.08548		mg/Kg		85	R0 - 130	R	35
Ethylbenzene			0.100	0.08348		mg/Kg		83	R0 - 130	R	35
m-Xylene & p-Xylene			0.200	0.1R19		mg/Kg		86	R0 - 130	R	35
o-Xylene			0.100	0.08628		mg/Kg		86	R0 - 130	10	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	1+1		5+ - 17+
1:4-, fluorobenzene (Surr)	1+5		5+ - 17+

Lab Sample ID: 890-1402-2 MS
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: PH02A
Prep Type: Total/NA
Prep Batch: 9534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0994	0.050R3	F1	mg/Kg		51	R0 - 130		
Toluene	<0.00200	U F2 F1	0.0994	0.05359	F1	mg/Kg		54	R0 - 130		
Ethylbenzene	<0.00200	U F1	0.0994	0.05R66	F1	mg/Kg		58	R0 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1203	F1	mg/Kg		61	R0 - 130		
o-Xylene	<0.00200	U F2 F1	0.0994	0.0R330		mg/Kg		R4	R0 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	S1C	5+ - 17+
1:4-, fluorobenzene (Surr)	1+3		5+ - 17+

Lab Sample ID: 890-1402-2 MSD
Matrix: Solid
Analysis Batch: 9521

Client Sample ID: PH02A
Prep Type: Total/NA
Prep Batch: 9534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05025	F1	mg/Kg		50	R0 - 130	1	35
Toluene	<0.00200	U F2 F1	0.100	0.1110	F2	mg/Kg		111	R0 - 130	R0	35
Ethylbenzene	<0.00200	U F1	0.100	0.05R56	F1	mg/Kg		58	R0 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1420		mg/Kg		R1	R0 - 130	1R	35
o-Xylene	<0.00200	U F2 F1	0.100	0.1349	F1 F2	mg/Kg		135	R0 - 130	59	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	194	S1C	5+ - 17+
1:4-, fluorobenzene (Surr)	12	S1-	5+ - 17+

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

Lab Sample ID: MB 880-9483/1-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline) ange 7 rganics vG) 7 f-C6-C10	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/1R/21 11:31	1
Diesel) ange 7 rganics v7 der C10-C28f	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/1R/21 11:31	1
7 ll) ange 7 rganics v7 der C28-C36f	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/1R/21 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-h cloroot aTne	1+4		5+ - 17+	1+0l4081 14/89	1+0l5081 11/71	1
o-perycen6l	115		5+ - 17+	1+0l4081 14/89	1+0l5081 11/71	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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

Lab Sample ID: LCS 880-9483/2-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline) ange 7 rganics vG) 7 f-C6-C10			1000	93R4		mg/Kg		94	R0 - 130		
Diesel) ange 7 rganics v7 der C10-C28f			1000	842.2		mg/Kg		84	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-h cloroot aTne	*i 4*		*5+ - 17+*
o-perycen6l	*i 2*		*5+ - 17+*

Lab Sample ID: LCSD 880-9483/3-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline) ange 7 rganics vG) 7 f-C6-C10			1000	1061		mg/Kg		106	R0 - 130	12	20
Diesel) ange 7 rganics v7 der C10-C28f			1000	929.4		mg/Kg		93	R0 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-h cloroot aTne	*98*		*5+ - 17+*
o-perycen6l	*94*		*5+ - 17+*

Lab Sample ID: 880-7052-A-1-F MS
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline) ange 7 rganics vG) 7 f-C6-C10	<49.9	U	99R	11R0		mg/Kg		11R	R0 - 130		
Diesel) ange 7 rganics v7 der C10-C28f	<49.9	U	99R	966.2		mg/Kg		94	R0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-h cloroot aTne	*9i*		*5+ - 17+*
o-perycen6l	*97*		*5+ - 17+*

Lab Sample ID: 880-7052-A-1-G MSD
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline) ange 7 rganics vG) 7 f-C6-C10	<49.9	U	1000	11R0		mg/Kg		11R	R0 - 130	0	20
Diesel) ange 7 rganics v7 der C10-C28f	<49.9	U	1000	1041		mg/Kg		102	R0 - 130	R	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-h cloroot aTne	*1+2*		*5+ - 17+*

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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

Lab Sample ID: 880-7052-A-1-G MSD
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9483

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-perycen6l	1+1		5+ - 17+

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9560/1-A
Matrix: Solid
Analysis Batch: 9759

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlori(e	<5.00	U	5.00		mg/Kg			10/18/21 16:3R	1

Lab Sample ID: LCS 880-9560/2-A
Matrix: Solid
Analysis Batch: 9759

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlori(e			250	240.8		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-9560/3-A
Matrix: Solid
Analysis Batch: 9759

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
Chlori(e			250	241.5		mg/Kg		9R	90 - 110	0	20

Lab Sample ID: 880-7095-A-1-B MS
Matrix: Solid
Analysis Batch: 9759

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlori(e	311		248	544.3		mg/Kg		94	90 - 110		

Lab Sample ID: 880-7095-A-1-C MSD
Matrix: Solid
Analysis Batch: 9759

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
Chlori(e	311		248	545.2		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

GC VOA

Prep Batch: 9462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9462/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	5035	
MB 880-9467/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9467/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9467/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1415-A-18-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1415-A-18-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 9500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9500/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-2	PH02A	Total/NA	Solid	8021B	9534
890-1402-3	PH02B	Total/NA	Solid	8021B	9534
MB 880-9462/5-A	Method Blank	Total/NA	Solid	8021B	9462
MB 880-9534/5-A	Method Blank	Total/NA	Solid	8021B	9534
LCS 880-9534/1-A	Lab Control Sample	Total/NA	Solid	8021B	9534
LCSD 880-9534/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9534
890-1402-2 MS	PH02A	Total/NA	Solid	8021B	9534
890-1402-2 MSD	PH02A	Total/NA	Solid	8021B	9534

Analysis Batch: 9527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	8021B	9467
MB 880-9467/5-A	Method Blank	Total/NA	Solid	8021B	9467
MB 880-9500/5-A	Method Blank	Total/NA	Solid	8021B	9500
LCS 880-9467/1-A	Lab Control Sample	Total/NA	Solid	8021B	9467
LCSD 880-9467/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9467
890-1415-A-18-C MS	Matrix Spike	Total/NA	Solid	8021B	9467
890-1415-A-18-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9467

Prep Batch: 9534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-2	PH02A	Total/NA	Solid	5035	
890-1402-3	PH02B	Total/NA	Solid	5035	
MB 880-9534/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9534/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9534/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1402-2 MS	PH02A	Total/NA	Solid	5035	
890-1402-2 MSD	PH02A	Total/NA	Solid	5035	

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	Total BTEX	
890-1402-2	PH02A	Total/NA	Solid	Total BTEX	
890-1402-3	PH02B	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

GC Semi VOA

Prep Batch: 9483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	8015NM Prep	
890-1402-2	PH02A	Total/NA	Solid	8015NM Prep	
890-1402-3	PH02B	Total/NA	Solid	8015NM Prep	
MB 880-9483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7052-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7052-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	8015B NM	9483
890-1402-2	PH02A	Total/NA	Solid	8015B NM	9483
890-1402-3	PH02B	Total/NA	Solid	8015B NM	9483
MB 880-9483/1-A	Method Blank	Total/NA	Solid	8015B NM	9483
LCS 880-9483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9483
LCSD 880-9483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9483
880-7052-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	9483
880-7052-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9483

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Total/NA	Solid	8015 NM	
890-1402-2	PH02A	Total/NA	Solid	8015 NM	
890-1402-3	PH02B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Soluble	Solid	DI Leach	
890-1402-2	PH02A	Soluble	Solid	DI Leach	
890-1402-3	PH02B	Soluble	Solid	DI Leach	
MB 880-9560/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9560/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9560/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7095-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7095-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 9759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH02	Soluble	Solid	300.0	9560
890-1402-2	PH02A	Soluble	Solid	300.0	9560
890-1402-3	PH02B	Soluble	Solid	300.0	9560
MB 880-9560/1-A	Method Blank	Soluble	Solid	300.0	9560
LCS 880-9560/2-A	Lab Control Sample	Soluble	Solid	300.0	9560
LCSD 880-9560/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9560
880-7095-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	9560
880-7095-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9560

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Client Sample ID: PH02

Date Collected: 10/05/21 10:45
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1402-1

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			4.99 g	5 mL	9467	10/15/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9527	10/16/21 14:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9900	10/19/21 13:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9483	10/14/21 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9596	10/17/21 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9560	10/15/21 17:31	CA	XEN MID
Soluble	Analysis	300.0		1			9759	10/18/21 17:17	SC	XEN MID

Client Sample ID: PH02A

Date Collected: 10/05/21 10:49
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1402-2

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			5.01 g	5 mL	9534	10/15/21 14:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/17/21 19:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9900	10/19/21 13:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9483	10/14/21 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9596	10/17/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9560	10/15/21 17:31	CA	XEN MID
Soluble	Analysis	300.0		1			9759	10/18/21 17:22	SC	XEN MID

Client Sample ID: PH02B

Date Collected: 10/05/21 10:55
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1402-3

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			5.00 g	5 mL	9534	10/15/21 14:17	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9521	10/17/21 19:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			9900	10/19/21 13:42	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9483	10/14/21 14:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9596	10/17/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9560	10/15/21 17:31	CA	XEN MID
Soluble	Analysis	300.0		1			9759	10/18/21 17:28	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 31402909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1402-1	PH02	Solid	10/05/21 10:45	10/12/21 14:04	1
890-1402-2	PH02A	Solid	10/05/21 10:49	10/12/21 14:04	2
890-1402-3	PH02B	Solid	10/05/21 10:55	10/12/21 14:04	3

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

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

Work Order Comments

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

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.6/2.9	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:	

890-1402 Chain of Custody

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)
PH02	S	10/5/2021	1045	1'	1			
PH02A	S	10/5/2021	1049	2'	1			
PH02B	S	10/5/2021	1055	3'	1			

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			10-12-21/8:00	2			10.12.21 1404
3				4			
5				6			

Revised Date101419 Rev 2019.1

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: 890-459 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 #: 890-1402-1
Address: 1211 W Florida Ave,	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	6021B/6036FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH02 (890-1402-1)	10/5/21	10 45 Mountain		Solid			X	X	X	X	X	1	
PH02A (890-1402-2)	10/5/21	10 49 Mountain		Solid			X	X	X	X	X	1	
PH02B (890-1402-3)	10/5/21	10 55 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 compliance 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: Due 10.12.21	Date/Time:	Company	Received by: KRAMER	Date/Time: 10 13 21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.6/1.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 31402909.110

Login Number: 1402
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: 890-1402-1
SDG Number: 31402909.110

Login Number: 1402
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/21 12:17 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1403-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/19/2021 1:32:41 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: Fez Fee 011H

Laboratory Job ID: 890-1403-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Job ID: 890-1403-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1403-1

Receipt
The samples were received on 10/13/3031 3:04 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 3.4°C

GC VOA
Method 8031B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9467 and analytical batch 880-9736 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (5CS) recovery was within acceptance limits.

Method 8031B: Surrogate recovery for the following samples were outside control limits: (MB 880-94L6/7-A), (MB 880-9467/7-A) and (890-1409-A-1-D). Evidence of matrix interferences is not obvious.

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

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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Client Sample ID: PH01

Date Collected: 10/05/21 10:23
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1403-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00303	U	0.00303		mg/Kg		10/15/31 12:12	10/16/31 03:15	1
Toluene	<0.00303	U	0.00303		mg/Kg		10/15/31 12:12	10/16/31 03:15	1
Ethylbenzene	<0.00303	U	0.00303		mg/Kg		10/15/31 12:12	10/16/31 03:15	1
m-Xylene & p-Xylene	**0.00437**		0.00404		mg/Kg		10/15/31 12:12	10/16/31 03:15	1
o-Xylene	<0.00303	U	0.00303		mg/Kg		10/15/31 12:12	10/16/31 03:15	1
Xylenes, Total	**0.00437**		0.00404		mg/Kg		10/15/31 12:12	10/16/31 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*10/15/21 13:13*	*10/17/21 02:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/15/21 13:13*	*10/17/21 02:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00437**		0.00404		mg/Kg			10/19/31 12:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tot&l TPH	<49.9	U	49.9		mg/Kg			10/19/31 12:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G&poline s &nge , rg&nicp aGs , RCO-C10	<49.9	U	49.9		mg/Kg		10/14/31 14:39	10/16/31 16:26	1
Diepel s &nge , rg&nicp a (er C10-C38R	<49.9	U	49.9		mg/Kg		10/14/31 14:39	10/16/31 16:26	1
, Il s &nge , rg&nicp a (er C38-C2CR	<49.9	U	49.9		mg/Kg		10/14/31 14:39	10/16/31 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:37*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.4**		5.04		mg/Kg			10/18/31 16:45	1

Client Sample ID: PH01A

Date Collected: 10/05/21 10:25
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1403-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00301	U	0.00301		mg/Kg		10/15/31 12:12	10/16/31 03:41	1
Toluene	<0.00301	U	0.00301		mg/Kg		10/15/31 12:12	10/16/31 03:41	1
Ethylbenzene	<0.00301	U	0.00301		mg/Kg		10/15/31 12:12	10/16/31 03:41	1
m-Xylene) 7-Xylene	<0.00403	U	0.00403		mg/Kg		10/15/31 12:12	10/16/31 03:41	1
o-Xylene	<0.00301	U	0.00301		mg/Kg		10/15/31 12:12	10/16/31 03:41	1
XylenepvTot&l	<0.00403	U	0.00403		mg/Kg		10/15/31 12:12	10/16/31 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/15/21 13:13*	*10/17/21 02:41*	*1*

Eurofinp XencovC&rlpb&d

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Client Sample ID: PH01A

Lab Sample ID: 890-1403-2

Date Collected: 10/05/21 10:25
Date Received: 10/12/21 14:04
Sample Depth: 2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/15/21 13:13*	*10/17/21 02:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tot&l BTEX	<0.00403	U	0.00403		mg/Kg			10/19/31 12:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**59.4**		49.8		mg/Kg			10/19/31 12:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G&poline s &nge , rg&nicp aGs , RCO-C10	<49.8	U	49.8		mg/Kg		10/14/31 14:39	10/16/31 16:56	1
Diesel Range Organics (Over C10-C28)	**59.4**		49.8		mg/Kg		10/14/31 14:39	10/16/31 16:56	1
, Il s &nge , rg&nicp a (er C38-C2CR	<49.8	U	49.8		mg/Kg		10/14/31 14:39	10/16/31 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/14/21 14:29*	*10/17/21 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		4.99		mg/Kg			10/18/31 16:50	1

Client Sample ID: PH01B

Lab Sample ID: 890-1403-3

Date Collected: 10/05/21 10:32
Date Received: 10/12/21 14:04
Sample Depth: 3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/15/31 12:12	10/16/31 02:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/15/31 12:12	10/16/31 02:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/15/31 12:12	10/16/31 02:06	1
m-Xylene) 7-Xylene	<0.00298	U	0.00298		mg/Kg		10/15/31 12:12	10/16/31 02:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/15/31 12:12	10/16/31 02:06	1
XylenepvTot&l	<0.00298	U	0.00298		mg/Kg		10/15/31 12:12	10/16/31 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/15/21 13:13*	*10/17/21 03:07*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/15/21 13:13*	*10/17/21 03:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tot&l BTEX	<0.00298	U	0.00298		mg/Kg			10/19/31 12:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tot&l TPH	<50.0	U	50.0		mg/Kg			10/19/31 12:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Client Sample ID: PH01B

Date Collected: 10/05/21 10:32
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1403-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G&poline s &nge , rg&nicp aGs , RCO-C10	<50.0	U	50.0		mg/Kg		10/14/31 14:39	10/16/31 18:18	1
Diepel s &nge , rg&nicp a (er C10-C38R	<50.0	U	50.0		mg/Kg		10/14/31 14:39	10/16/31 18:18	1
, Il s &nge , rg&nicp a (er C38-C2CR	<50.0	U	50.0		mg/Kg		10/14/31 14:39	10/16/31 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:18*	*1*
o-Terphenyl	*98*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.8**		4.96		mg/Kg			10/18/31 16:5O	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

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)
890-1403-1	PH01	105	94
890-1403-2	PH01A	98	99
890-1403-3	PH01B	99	94
890-1409-A-1-B MS	Matrix Spike	97	108
890-1409-A-1-C MSD	Matrix Spike Duplicate	118	112
LCS 880-9475/1-A	Lab Control Sample	90	103
LCSD 880-9475/2-A	Lab Control Sample Dup	91	105
MB 880-9467/5-A	Method Blank	55 S1-	94
MB 880-9475/5-A	Method Blank	59 S1-	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7052-A-1-F MS	Matrix Spike	98	93
880-7052-A-1-G MSD	Matrix Spike Duplicate	105	101
890-1403-1	PH01	103	107
890-1403-2	PH01A	88	93
890-1403-3	PH01B	91	98
LCS 880-9483/2-A	Lab Control Sample	84	85
LCSD 880-9483/3-A	Lab Control Sample Dup	92	94
MB 880-9483/1-A	Method Blank	104	117

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9467/5-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9467

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*	*S7-*	*03 - 7/ 3*	*735715 7 73633*	*735725 7 3267/*	*7*
7Œ4-i 9luorobenzene (Surr)	*, 4*		*03 - 7/ 3*	*735715 7 73633*	*735725 7 3267/*	*7*

Lab Sample ID: MB 880-9475/5-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9475

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 13:13	10/16/21 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1,*	*S7-*	*03 - 7/ 3*	*735715 7 7/ 67/*	*735725 7 : 36/*	*7*
7Œ4-i 9luorobenzene (Surr)	*, 4*		*03 - 7/ 3*	*735715 7 7/ 67/*	*735725 7 : 36/*	*7*

Lab Sample ID: LCS 880-9475/1-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08997		mg/Kg		90	70 - 130		
Toluene			0.100	0.08622		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08840		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1738		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08893		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 3*		*03 - 7/ 3*
7Œ4-i 9luorobenzene (Surr)	*73/*		*03 - 7/ 3*

Lab Sample ID: LCSD 880-9475/2-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08597		mg/Kg		86	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

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

Lab Sample ID: LCSD 880-9475/2-A
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.08904		mg/Kg		89	70 - 130	3	35
Ethylbenzene			0.100	0.08589		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1697		mg/Kg		85	70 - 130	2	35
o-Xylene			0.100	0.08790		mg/Kg		88	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 7*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*731*		*03 - 7/ 3*

Lab Sample ID: 890-1409-A-1-B MS
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2 F1	0.100	0.07320		mg/Kg		73	70 - 130		
Toluene	<0.00199	U F1	0.100	0.06060	F1	mg/Kg		60	70 - 130		
Ethylbenzene	<0.00199	U F2 F1	0.100	0.07085		mg/Kg		71	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.01955	F1	mg/Kg		10	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.100	0.07847		mg/Kg		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 0*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*73C*		*03 - 7/ 3*

Lab Sample ID: 890-1409-A-1-C MSD
Matrix: Solid
Analysis Batch: 9527

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0990	0.03372	F2 F1	mg/Kg		34	70 - 130	74	35
Toluene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.03244	F2 F1	mg/Kg		33	70 - 130	74	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.01108	F2 F1	mg/Kg		6	70 - 130	55	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.04261	F2 F1	mg/Kg		43	70 - 130	59	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77C*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*77:*		*03 - 7/ 3*

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

Lab Sample ID: MB 880-9483/1-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 11:31	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

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

Lab Sample ID: MB 880-9483/1-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 11:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/21 14:29	10/17/21 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-h cloroot aTne	*734*		*03 - 7/ 3*	*735745 7 746 ,*	*735705 7 776 7*	*7*
o-perycen8l	*770*		*03 - 7/ 3*	*735745 7 746 ,*	*735705 7 776 7*	*7*

Lab Sample ID: LCS 880-9483/2-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	937.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	842.2		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-h cloroot aTne	*C4*		*03 - 7/ 3*
o-perycen8l	*C1*		*03 - 7/ 3*

Lab Sample ID: LCSD 880-9483/3-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1061		mg/Kg		106	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	929.4		mg/Kg		93	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-h cloroot aTne	*, :*		*03 - 7/ 3*
o-perycen8l	*, 4*		*03 - 7/ 3*

Lab Sample ID: 880-7052-A-1-F MS
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1170		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	966.2		mg/Kg		94	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-h cloroot aTne	*, C*		*03 - 7/ 3*
o-perycen8l	*, /*		*03 - 7/ 3*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1403-1
SDG: 31402909.110

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

Lab Sample ID: 880-7052-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9596 — **Prep Batch: 9483**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1170		mg/Kg		117	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1041		mg/Kg		102	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-h cloroot aTne	*731*		*03 - 7/ 3*
o-perycen8l	*737*		*03 - 7/ 3*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9560/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 9759

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/18/21 16:37	1

Lab Sample ID: LCS 880-9560/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 9759

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	240.8		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-9560/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 9759

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	241.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-7095-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 9759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	311		248	544.3		mg/Kg		94	90 - 110		

Lab Sample ID: 880-7095-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 9759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	311		248	545.2		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

GC VOA

Prep Batch: 9467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-946h/5-A	Metaod BlknT	Nbtkl/7 A	Solid	5025	

Prep Batch: 9475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	5025	
890-1402-3	PH01A	Nbtkl/7 A	Solid	5025	
890-1402-2	PH01B	Nbtkl/7 A	Solid	5025	
MB 880-94h5/5-A	Metaod BlknT	Nbtkl/7 A	Solid	5025	
LCS 880-94h5/1-A	Lkb Control Skmple	Nbtkl/7 A	Solid	5025	
LCSD 880-94h5/3-A	Lkb Control Skmple Dup	Nbtkl/7 A	Solid	5025	
890-1409-A-1-B MS	Mktrix SpiTe	Nbtkl/7 A	Solid	5025	
890-1409-A-1-C MSD	Mktrix SpiTe Duplickte	Nbtkl/7 A	Solid	5025	

Analysis Batch: 9527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	8031B	94h5
890-1402-3	PH01A	Nbtkl/7 A	Solid	8031B	94h5
890-1402-2	PH01B	Nbtkl/7 A	Solid	8031B	94h5
MB 880-946h/5-A	Metaod BlknT	Nbtkl/7 A	Solid	8031B	946h
MB 880-94h5/5-A	Metaod BlknT	Nbtkl/7 A	Solid	8031B	94h5
LCS 880-94h5/1-A	Lkb Control Skmple	Nbtkl/7 A	Solid	8031B	94h5
LCSD 880-94h5/3-A	Lkb Control Skmple Dup	Nbtkl/7 A	Solid	8031B	94h5
890-1409-A-1-B MS	Mktrix SpiTe	Nbtkl/7 A	Solid	8031B	94h5
890-1409-A-1-C MSD	Mktrix SpiTe Duplickte	Nbtkl/7 A	Solid	8031B	94h5

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	Nbtkl BNEX	
890-1402-3	PH01A	Nbtkl/7 A	Solid	Nbtkl BNEX	
890-1402-2	PH01B	Nbtkl/7 A	Solid	Nbtkl BNEX	

GC Semi VOA

Prep Batch: 9483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	80157 M Prep	
890-1402-3	PH01A	Nbtkl/7 A	Solid	80157 M Prep	
890-1402-2	PH01B	Nbtkl/7 A	Solid	80157 M Prep	
MB 880-9482/1-A	Metaod BlknT	Nbtkl/7 A	Solid	80157 M Prep	
LCS 880-9482/3-A	Lkb Control Skmple	Nbtkl/7 A	Solid	80157 M Prep	
LCSD 880-9482/2-A	Lkb Control Skmple Dup	Nbtkl/7 A	Solid	80157 M Prep	
880-h053-A-1-F MS	Mktrix SpiTe	Nbtkl/7 A	Solid	80157 M Prep	
880-h053-A-1-G MSD	Mktrix SpiTe Duplickte	Nbtkl/7 A	Solid	80157 M Prep	

Analysis Batch: 9596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	8015B 7 M	9482
890-1402-3	PH01A	Nbtkl/7 A	Solid	8015B 7 M	9482
890-1402-2	PH01B	Nbtkl/7 A	Solid	8015B 7 M	9482
MB 880-9482/1-A	Metaod BlknT	Nbtkl/7 A	Solid	8015B 7 M	9482
LCS 880-9482/3-A	Lkb Control Skmple	Nbtkl/7 A	Solid	8015B 7 M	9482

QC Association Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

GC Semi VOA (Continued)

Analysis Batch: 9596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9482/2-A	Lkb Control Skmple Dup	Nbtkl/7 A	Solid	8015B 7 M	9482
880-h053-A-1-F MS	Mktrix SpiTe	Nbtkl/7 A	Solid	8015B 7 M	9482
880-h053-A-1-G MSD	Mktrix SpiTe Duplickte	Nbtkl/7 A	Solid	8015B 7 M	9482

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Nbtkl/7 A	Solid	8015 7 M	
890-1402-3	PH01A	Nbtkl/7 A	Solid	8015 7 M	
890-1402-2	PH01B	Nbtkl/7 A	Solid	8015 7 M	

HPLC/IC

Leach Batch: 9560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Soluble	Solid	DI Lekca	
890-1402-3	PH01A	Soluble	Solid	DI Lekca	
890-1402-2	PH01B	Soluble	Solid	DI Lekca	
MB 880-9560/1-A	Metaod BlknT	Soluble	Solid	DI Lekca	
LCS 880-9560/3-A	Lkb Control Skmple	Soluble	Solid	DI Lekca	
LCSD 880-9560/2-A	Lkb Control Skmple Dup	Soluble	Solid	DI Lekca	
880-h095-A-1-B MS	Mktrix SpiTe	Soluble	Solid	DI Lekca	
880-h095-A-1-C MSD	Mktrix SpiTe Duplickte	Soluble	Solid	DI Lekca	

Analysis Batch: 9759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	PH01	Soluble	Solid	200.0	9560
890-1402-3	PH01A	Soluble	Solid	200.0	9560
890-1402-2	PH01B	Soluble	Solid	200.0	9560
MB 880-9560/1-A	Metaod BlknT	Soluble	Solid	200.0	9560
LCS 880-9560/3-A	Lkb Control Skmple	Soluble	Solid	200.0	9560
LCSD 880-9560/2-A	Lkb Control Skmple Dup	Soluble	Solid	200.0	9560
880-h095-A-1-B MS	Mktrix SpiTe	Soluble	Solid	200.0	9560
880-h095-A-1-C MSD	Mktrix SpiTe Duplickte	Soluble	Solid	200.0	9560

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Client Sample ID: PH02

Lab Sample ID: 890-2104-2

Date Collected: 20/05/R2 20:R4

Matrix: Solid

Date v eceiTed: 20/2R/R2 21:01

Prep yBpe	Aatch yBpe	Aatch Method	v z n	Dil Nactor	Initial s mozn t	Ninal s mozn t	Aatch 3 z mber	Prepared or s nalBFed	s nalBut	Lab
7otTl/NA	Prep	5025			4.95 a	5 g L	9465	10/15/31 12:12	KL	XEN MID
7otTl/NA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10/16/31 03:15	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/31 12:43	AJ	XEN MID
7otTl/NA	AnTlnyiy	8015 NM		1			989R	10/19/31 12:35	AJ	XEN MID
7otTl/NA	Prep	8015NM Prep			10.02 a	10 g L	9482	10/14/31 14:39	DM	XEN MID
7otTl/NA	AnTlnyiy	8015s NM		1			959R	10/16/31 16:26	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.9Ra	50 g L	95R0	10/15/31 16:21	CA	XEN MID
Soluble	AnTlnyiy	200.0		1			9659	10/18/31 16:45	SC	XEN MID

Client Sample ID: PH02s

Lab Sample ID: 890-2104-R

Date Collected: 20/05/R2 20:R5

Matrix: Solid

Date v eceiTed: 20/2R/R2 21:01

Prep yBpe	Aatch yBpe	Aatch Method	v z n	Dil Nactor	Initial s mozn t	Ninal s mozn t	Aatch 3 z mber	Prepared or s nalBFed	s nalBut	Lab
7otTl/NA	Prep	5025			4.96 a	5 g L	9465	10/15/31 12:12	KL	XEN MID
7otTl/NA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10/16/31 03:41	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/31 12:43	AJ	XEN MID
7otTl/NA	AnTlnyiy	8015 NM		1			989R	10/19/31 12:35	AJ	XEN MID
7otTl/NA	Prep	8015NM Prep			10.04 a	10 g L	9482	10/14/31 14:39	DM	XEN MID
7otTl/NA	AnTlnyiy	8015s NM		1			959R	10/16/31 16:56	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.01 a	50 g L	95R0	10/15/31 16:21	CA	XEN MID
Soluble	AnTlnyiy	200.0		1			9659	10/18/31 16:50	SC	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-2104-4

Date Collected: 20/05/R2 20:4R

Matrix: Solid

Date v eceiTed: 20/2R/R2 21:01

Prep yBpe	Aatch yBpe	Aatch Method	v z n	Dil Nactor	Initial s mozn t	Ninal s mozn t	Aatch 3 z mber	Prepared or s nalBFed	s nalBut	Lab
7otTl/NA	Prep	5025			5.03 a	5 g L	9465	10/15/31 12:12	KL	XEN MID
7otTl/NA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10/16/31 02:06	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/31 12:43	AJ	XEN MID
7otTl/NA	AnTlnyiy	8015 NM		1			989R	10/19/31 12:35	AJ	XEN MID
7otTl/NA	Prep	8015NM Prep			10.01 a	10 g L	9482	10/14/31 14:39	DM	XEN MID
7otTl/NA	AnTlnyiy	8015s NM		1			959R	10/16/31 18:18	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.02 a	50 g L	95R0	10/15/31 16:21	CA	XEN MID
Soluble	AnTlnyiy	200.0		1			9659	10/18/31 16:5R	SC	XEN MID

LaboratorB v eferenceu:

XEN MID = Eurofiny Xenco, MidlTnd, 1311 W. FloridT Ave, MidlTnd, 7X 69601, 7EL (423)604-5440

Eurofiny Xenco, CTrlybTd

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

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	T104704400-31-33	06-20-33

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: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Method	Method Description	Protocol	Laboratory
8031B	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
200.0	Anions, Ion Chromatography	MCAWW	XEN MID
5025	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-600/4-79-030, March 1982 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, 1311 W. Florida Ave, Midland, TX 79701, TEL (423)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 21403909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1402-1	PH01	Solid	10/05/31 10:32	10/13/31 14:04	1
890-1402-3	PH01A	Solid	10/05/31 10:35	10/13/31 14:04	3
890-1402-2	PH01B	Solid	10/05/31 10:23	10/13/31 14:04	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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level ☐ PST/US ☐ TRR ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	10/5/2021	1023	1'	1			
PH01A	S	10/5/2021	1025	2'	1			
PH01B	S	10/5/2021	1032	3'	1			

890-1403 Chain of Custody

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

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			10-12-21 16:00	2		10.12.21 1404
3				4		
5				6		

Revised Date 101419 Rev. 2019.1

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: 890-459 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 #: 890-1403-1
Address: 1211 W Florida Ave ,	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH01 (890-1403-1)	10/5/21	10 23 Mountain		Solid			X	X	X	X	X	1	
PH01A (890-1403-2)	10/5/21	10 25 Mountain		Solid			X	X	X	X	X	1	
PH01B (890-1403-3)	10/5/21	10 32 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

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

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Cue 10·12·21	Date/Time:	Company	Received by: Kramer	Date/Time: 10 13 21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.6/1.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 21403909.110

Login Number: 1402
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: 890-1402-1
SDG Number: 21403909.110

Login Number: 1402
List Number: 3
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/12/31 13:17 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1405-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/20/2021 1:52:52 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: Fez Fee 011H

Laboratory Job ID: 890-1405-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1405-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Fez Fee 011H

Job ID: 890-1405-1
SDG: 31402909.110

Job ID: 890-1405-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1405-1

Receipt
The samples were received on 10/12/2021 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9466 and analytical batch 880-9649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03 (890-1405-1) and (890-1405-A-1-B MS). Evidence of matrix interferences is not obvious.

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

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.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

Client Sample ID: PH03

Date Collected: 10/05/21 11:05
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1405-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
<enHene	m0.00r 00	U z1 zr	0.00r 00		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1
6olTene	m0.00r 00	U z1	0.00r 00		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1
utEhlbenHene	m0.00r 00	U z1 zr	0.00r 00		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1
g -y hlene X &-y hlene	m0.00400	U z1 zr	0.00400		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1
o-y hlene	m0.00r 00	U z1 zr	0.00r 00		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1
y hleneps6ot, l	m0.00400	U z1 zr	0.00400		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*10/14/21 12:43*	*10/19/21 01:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/14/21 12:43*	*10/19/21 01:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6ot, l <6uy	m0.00400	U	0.00400		g KF5K			10F19Fr 1 13:4r	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6ot, l 6PB	m49.9	U	49.9		g KF5K			10F19Fr 1 13:r 2	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G, poline a , nKe RjK, nicp CGa R(-C) -C10	m49.9	U	49.9		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:38	1
Diepel a , nKe RjK, nicp CRvej C10-Cr 8(	m49.9	U	49.9		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:38	1
RIl a , nKe RjK, nicp CRvej Cr 8-C3) (	m49.9	U	49.9		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:38*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.2**		4.97		g KF5K			10F18Fr 1 18:30	1

Client Sample ID: PH03A

Date Collected: 10/05/21 11:07
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1405-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
<enHene	m0.00198	U	0.00198		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1
6olTene	m0.00198	U	0.00198		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1
utEhlbenHene	m0.00198	U	0.00198		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1
g -y hlene X &-y hlene	m0.0039)	U	0.0039)		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1
o-y hlene	m0.00198	U	0.00198		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1
y hleneps6ot, l	m0.0039)	U	0.0039)		g KF5K		10F14Fr 1 1r:43	10F19Fr 1 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/14/21 12:43*	*10/19/21 01:34*	*1*

uTjofinp y encosC, jlpb, d

Client Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

Client Sample ID: PH03A

Lab Sample ID: 890-1405-2
Matrix: Solid
Date Collected: 10/05/21 11:07
Date Received: 10/12/21 14:04
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/14/21 12:43*	*10/19/21 01:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6ot, l <6uy	m0.0039)	U	0.0039)	g KF5K			10F19Fr 1 13:4r	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6ot, l 6PB	m49.8	U	49.8	g KF5K			10F19Fr 1 13:r 2	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
G, poline a , nKe RjK, nicp C©a R(-C) -C10	m49.8	U	49.8	g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:29	1
Diepel a , nKe RjK, nicp ©Rvej C10-Cr 8(	m49.8	U	49.8	g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:29	1
RIl a , nKe RjK, nicp ©Rvej Cr 8-C3) (	m49.8	U	49.8	g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:59*	*1*
o-Terphenyl	*113*		*70 - 130*	*10/14/21 14:29*	*10/17/21 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.33**		4.99	g KF5K			10F18Fr 1 18:3)	1

Client Sample ID: PH03B

Lab Sample ID: 890-1405-3
Matrix: Solid
Date Collected: 10/05/21 11:10
Date Received: 10/12/21 14:04
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<enH-ene	m0.00r 00	U	0.00r 00	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1
6olTene	m0.00r 00	U	0.00r 00	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1
utEhlbenH-ene	m0.00r 00	U	0.00r 00	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1
g -y hlene X &-y hlene	m0.00400	U	0.00400	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1
o-y hlene	m0.00r 00	U	0.00r 00	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1
y hleneps6ot, l	m0.00400	U	0.00400	g KF5K		10F14Fr 1 1r :43	10F19Fr 1 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*10/14/21 12:43*	*10/19/21 01:55*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/14/21 12:43*	*10/19/21 01:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6ot, l <6uy	m0.00400	U	0.00400	g KF5K			10F19Fr 1 13:4r	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6ot, l 6PB	m49.8	U	49.8	g KF5K			10F19Fr 1 13:r 2	1

u Tjofinp y encosC, jlpb, d

Client Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

Client Sample ID: PH03B

Date Collected: 10/05/21 11:10
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1405-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G, poline a , nKe RjK, nicp C0Ca R(-C) -C10	m49.8	U	49.8		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:r r	1
Diepel a , nKe RjK, nicp 0Rvej C10-Cr 8(	m49.8	U	49.8		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:r r	1
RIl a , nKe RjK, nicp 0Rvej Cr 8-C3) (	m49.8	U	49.8		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:r r	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/14/21 14:29*	*10/17/21 19:22*	*1*
o-Terphenyl	*100*		*70 - 130*	*10/14/21 14:29*	*10/17/21 19:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.14		4.9)		g KF5K			10F19Fr 1 11:48	1

Client Sample ID: PH03C

Date Collected: 10/05/21 11:15
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1405-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
<enHene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1
6olTene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1
utEhlbenHene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1
g -y hlene X &-y hlene	m0.00399	U	0.00399		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1
o-y hlene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1
y hleneps6ot, l	m0.00399	U	0.00399		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 0r :12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*10/14/21 12:43*	*10/19/21 02:15*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*10/14/21 12:43*	*10/19/21 02:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6ot, l <6uy	m0.00399	U	0.00399		g KF5K			10F19Fr 1 13:4r	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6ot, l 6PB	m20.0	U	20.0		g KF5K			10Fr 0Fr 1 14:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G, poline a , nKe RjK, nicp C0Ca R(-C) -C10	m20.0	U	20.0		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:4r	1
Diepel a , nKe RjK, nicp 0Rvej C10-Cr 8(	m20.0	U	20.0		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:4r	1
RIl a , nKe RjK, nicp 0Rvej Cr 8-C3) (	m20.0	U	20.0		g KF5K		10F14Fr 1 14:r 9	10F17Fr 1 19:4r	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/14/21 14:29*	*10/17/21 19:42*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/14/21 14:29*	*10/17/21 19:42*	*1*

uTjofinp yencosC, jlpb, d

Client Sample Results

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

Client Sample ID: PH03C
Date Collected: 10/05/21 11:15
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1405-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		2.04		g KF5K			10F19F 1 11:24	1

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

Surrogate Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 0117

Job ID: 890-1402-1
SDG: 3140r 909.110

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)										
890-1402-1	P7 03	13r S15	91										
890-1402-1 6 S	P7 03	1+8 S15	r 82 S15										
890-1402-1 6 SD	P7 03	84	102										
890-1402-r	P7 03A	8M	91										
890-1402-3	P7 03B	81	81										
890-1402-4	P7 03C	1r 1	11+										
aCS 880-94MMF1-A	axb Contjol Sxp kle	91	10r										
aCSD 880-94MMFr -A	axb Contjol Sxp kle Duk	88	10r										
6 B 880-94MM2-A	6 etLomBlxnh	99	104										
6 B 880-9M82F2-A	6 etLomBlxnh	98	103										

Surrogate Legend

BzB d 4-Bjop o=uojobenH=ene fSujj(
DzB) d 1Z4-Di=uojobenH=ene fSujj(

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-+02r -A-1-z 6 S	6 xtji, Skihe	98	93										
880-+02r -A-1-G 6 SD	6 xtji, Skihe Duklicxte	102	101										
890-1402-1	P7 03	108	113										
890-1402-r	P7 03A	108	113										
890-1402-3	P7 03B	94	100										
890-1402-4	P7 03C	9+	102										
aCS 880-9483Fr -A	axb Contjol Sxp kle	84	82										
aCSD 880-9483F3-A	axb Contjol Sxp kle Duk	9r	94										
6 B 880-9483F1-A	6 etLomBlxnh	104	11+										

Surrogate Legend

1CO d 1-CLlojooctxne
OTP7 d o-TejkLenyl

Eujo=ns XencoZCxjlsbxm

QC Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9466/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9466

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
<enHene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1
6olTene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1
utEhlbenHene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1
g -y hlene X &-y hlene	m0.00400	U	0.00400		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1
o-y hlene	m0.00r 00	U	0.00r 00		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1
y hleneps6ot, l	m0.00400	U	0.00400		g KF5K		10F14Fr 1 1r :43	10F19Fr 1 00:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/14/21 12:43*	*10/19/21 00:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/14/21 12:43*	*10/19/21 00:45*	*1*

Lab Sample ID: LCS 880-9466/1-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
<enHene			0.100	0.080r a		g KF5K		80	R0 - 130		
6olTene			0.100	0.0948r		g KF5K		92	R0 - 130		
utEhlbenHene			0.100	0.09829		g KF5K		99	R0 - 130		
g -y hlene X &-y hlene			0.r 00	0.183a		g KF5K		9r	R0 - 130		
o-y hlene			0.100	0.10a3		g KF5K		10a	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-9466/2-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
<enHene			0.100	0.1114		g KF5K		111	R0 - 130	3r	32
6olTene			0.100	0.1143		g KF5K		114	R0 - 130	19	32
utEhlbenHene			0.100	0.1121		g KF5K		112	R0 - 130	12	32
g -y hlene X &-y hlene			0.r 00	0.r r 03		g KF5K		110	R0 - 130	18	32
o-y hlene			0.100	0.11R3		g KF5K		11R	R0 - 130	10	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-1405-1 MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: P. 03
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
<enHene	m0.00r 00	U z1 zr	0.100	0.102a		g KF5K		102	R0 - 130		
6olTene	m0.00r 00	U z1	0.100	0.0R230		g KF5K		R2	R0 - 130		

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QC Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

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

Lab Sample ID: 890-1405-1 MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: P. 03
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
utEhlbenHene	m0.00r 00	U z1 zr	0.100	0.03928	z1	g KF5K		39	R0 - 130		
g -y hlene X &-y hlene	m0.00400	U z1 zr	0.r 00	0.02312	z1	g KF5K		r R	R0 - 130		
o-y hlene	m0.00r 00	U z1 zr	0.100	0.0083a9	z1	g KF5K		8	R0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*178*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*285*	*S1+*	*70 - 130*

Lab Sample ID: 890-1405-1 MSD
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: P. 03
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
<enHene	m0.00r 00	U z1 zr	0.101	0.00944r	z1 zr	g KF5K		9	R0 - 130	1aR	32
6olTene	m0.00r 00	U z1	0.101	0.02aaR	z1	g KF5K		2a	R0 - 130	r 8	32
utEhlbenHene	m0.00r 00	U z1 zr	0.101	0.0aa82	z1 zr	g KF5K		aa	R0 - 130	21	32
g -y hlene X &-y hlene	m0.00400	U z1 zr	0.r 0r	0.0822R	z1 zr	g KF5K		4r	R0 - 130	4R	32
o-y hlene	m0.00r 00	U z1 zr	0.101	0.0R180	zr	g KF5K		R1	R0 - 130	128	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-9635/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9635

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
<enHene	m0.00r 00	U	0.00r 00		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1
6olTene	m0.00r 00	U	0.00r 00		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1
utEhlbenHene	m0.00r 00	U	0.00r 00		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1
g -y hlene X &-y hlene	m0.00400	U	0.00400		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1
o-y hlene	m0.00r 00	U	0.00r 00		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1
y hleneps6ot, l	m0.00400	U	0.00400		g KF5K		10F18Fr 1 09:40	10F18Fr 1 13:1r	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/18/21 09:40*	*10/18/21 13:12*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/18/21 09:40*	*10/18/21 13:12*	*1*

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

Lab Sample ID: MB 880-9483/1-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
G, poline) , nKe 7 jK, nicp vG) 7 f-Ca-C10	m20.0	U	20.0		g KF5K		10F14Fr 1 14:r 9	10F1RFr 1 11:31	1

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QC Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

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

Lab Sample ID: MB 880-9483/1-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diepel) , nKe 7 jK, nicp v7 dej C10-Cr 8f	m20.0	U	20.0		g KF5 K		10F14Fr 1 14:r 9	10F1RFr 1 11:31	1
7 II) , nKe 7 jK, nicp v7 dej Cr 8-C3af	m20.0	U	20.0		g KF5 K		10F14Fr 1 14:r 9	10F1RFr 1 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/14/21 14:29*	*10/17/21 11:31*	*1*
o-Terphenyl	*117*		*70 - 130*	*10/14/21 14:29*	*10/17/21 11:31*	*1*

Lab Sample ID: LCS 880-9483/2-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
G, poline) , nKe 7 jK, nicp vG) 7 f-Ca-C10			1000	93R4		g KF5 K		94	R0 - 130		
Diepel) , nKe 7 jK, nicp v7 dej C10-Cr 8f			1000	84r .r		g KF5 K		84	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-9483/3-A
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
G, poline) , nKe 7 jK, nicp vG) 7 f-Ca-C10			1000	10a1		g KF5 K		10a	R0 - 130	1r	r 0
Diepel) , nKe 7 jK, nicp v7 dej C10-Cr 8f			1000	9r 9.4		g KF5 K		93	R0 - 130	10	r 0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-H052-A-1-F MS
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
G, poline) , nKe 7 jK, nicp vG) 7 f-Ca-C10	m49.9	U	99R	11R0		g KF5 K		11R	R0 - 130		
Diepel) , nKe 7 jK, nicp v7 dej C10-Cr 8f	m49.9	U	99R	9aa.r		g KF5 K		94	R0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

u TjoQnp y encosC, jlpb, (

QC Sample Results

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011B

Job ID: 890-1402-1
SDG: 3140r 909.110

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

Lab Sample ID: 880-H052-A-1-G MSD
Matrix: Solid
Analysis Batch: 9596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
G, poline) , nKe 7 jK, nicp vG) 7 f-Ca-C10	m49.9	U	1000	11R0		g KF5 K		11R	R0 - 130	0	r0
Diepel) , nKe 7 jK, nicp v7 dej C10-Cr 8f	m49.9	U	1000	1041		g KF5 K		10r	R0 - 130	R	r0

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300%0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9560/1-A
Matrix: Solid
Analysis Batch: 9H59

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
CElojı(e	m2.00	U	2.00		g KF5 K			10Fl8Fr 1 1a:3R	1

Lab Sample ID: LCS 880-9560/2-A
Matrix: Solid
Analysis Batch: 9H59

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
CElojı(e			r 20	r 40.8		g KF5 K		9a	90 - 110		

Lab Sample ID: LCSD 880-9560/3-A
Matrix: Solid
Analysis Batch: 9H59

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
CElojı(e			r 20	r 41.2		g KF5 K		9R	90 - 110	0	r0

Lab Sample ID: 880-H095-A-1-B MS
Matrix: Solid
Analysis Batch: 9H59

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
CElojı(e	311		r 48	244.3		g KF5 K		94	90 - 110		

Lab Sample ID: 880-H095-A-1-C MSD
Matrix: Solid
Analysis Batch: 9H59

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
CElojı(e	311		r 48	242.r		g KF5 K		92	90 - 110	0	r0

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QC Association Summary

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC VOA

Prep Batch: 9466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MotBlf6 A	Soli5	2032	
890-1402-r	Pd 03A	MotBlf6 A	Soli5	2032	
890-1402-3	Pd 03h	MotBlf6 A	Soli5	2032	
890-1402-4	Pd 03C	MotBlf6 A	Soli5	2032	
a h 880-94kkf2-A	a etTo5 hIBnN	MotBlf6 A	Soli5	2032	
7CS 880-94kkF1-A	7Bb Contjol SBL mle	MotBlf6 A	Soli5	2032	
7CSD 880-94kkfr-A	7Bb Contjol SBL mle Dpm	MotBlf6 A	Soli5	2032	
890-1402-1 a S	Pd 03	MotBlf6 A	Soli5	2032	
890-1402-1 a SD	Pd 03	MotBlf6 A	Soli5	2032	

Prep Batch: 9635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
a h 880-9k32f2-A	a etTo5 hIBnN	MotBlf6 A	Soli5	2032	

Analysis Batch: 9649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MotBlf6 A	Soli5	80r 1h	94kk
890-1402-r	Pd 03A	MotBlf6 A	Soli5	80r 1h	94kk
890-1402-3	Pd 03h	MotBlf6 A	Soli5	80r 1h	94kk
890-1402-4	Pd 03C	MotBlf6 A	Soli5	80r 1h	94kk
a h 880-94kkf2-A	a etTo5 hIBnN	MotBlf6 A	Soli5	80r 1h	94kk
a h 880-9k32f2-A	a etTo5 hIBnN	MotBlf6 A	Soli5	80r 1h	9k32
7CS 880-94kkF1-A	7Bb Contjol SBL mle	MotBlf6 A	Soli5	80r 1h	94kk
7CSD 880-94kkfr-A	7Bb Contjol SBL mle Dpm	MotBlf6 A	Soli5	80r 1h	94kk
890-1402-1 a S	Pd 03	MotBlf6 A	Soli5	80r 1h	94kk
890-1402-1 a SD	Pd 03	MotBlf6 A	Soli5	80r 1h	94kk

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MotBlf6 A	Soli5	MotBl hMux	
890-1402-r	Pd 03A	MotBlf6 A	Soli5	MotBl hMux	
890-1402-3	Pd 03h	MotBlf6 A	Soli5	MotBl hMux	
890-1402-4	Pd 03C	MotBlf6 A	Soli5	MotBl hMux	

GC Semi VOA

Prep Batch: 9483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MotBlf6 A	Soli5	80126a Pjem	
890-1402-r	Pd 03A	MotBlf6 A	Soli5	80126a Pjem	
890-1402-3	Pd 03h	MotBlf6 A	Soli5	80126a Pjem	
890-1402-4	Pd 03C	MotBlf6 A	Soli5	80126a Pjem	
a h 880-9483F1-A	a etTo5 hIBnN	MotBlf6 A	Soli5	80126a Pjem	
7CS 880-9483fr-A	7Bb Contjol SBL mle	MotBlf6 A	Soli5	80126a Pjem	
7CSD 880-9483f3-A	7Bb Contjol SBL mle Dpm	MotBlf6 A	Soli5	80126a Pjem	
880-E02r-A-1-z a S	a BtjiX SmiNe	MotBlf6 A	Soli5	80126a Pjem	
880-E02r-A-1-G a SD	a BtjiX SmiNe DpmlicBte	MotBlf6 A	Soli5	80126a Pjem	

Analysis Batch: 9596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MotBlf6 A	Soli5	8012h 6a	9483

upjofins xenco, CBjlsbB5

QC Association Summary

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC Semi VOA (Continued)

Analysis Batch: 9596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-r	Pd 03A	MbtBlf6 A	Soli5	8012h 6 a	9483
890-1402-3	Pd 03h	MbtBlf6 A	Soli5	8012h 6 a	9483
890-1402-4	Pd 03C	MbtBlf6 A	Soli5	8012h 6 a	9483
a h 880-9483Pf-A	a etTo5 hIBnN	MbtBlf6 A	Soli5	8012h 6 a	9483
7CS 880-9483fr -A	7Bb Contjol SBL mle	MbtBlf6 A	Soli5	8012h 6 a	9483
7CSD 880-9483f3-A	7Bb Contjol SBL mle Dpm	MbtBlf6 A	Soli5	8012h 6 a	9483
880-E02r -A-1-z a S	a BtjiX SmiNe	MbtBlf6 A	Soli5	8012h 6 a	9483
880-E02r -A-1-G a SD	a BtjiX SmiNe DpmlicBte	MbtBlf6 A	Soli5	8012h 6 a	9483

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	MbtBlf6 A	Soli5	8012 6 a	
890-1402-r	Pd 03A	MbtBlf6 A	Soli5	8012 6 a	
890-1402-3	Pd 03h	MbtBlf6 A	Soli5	8012 6 a	

Analysis Batch: 10003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-4	Pd 03C	MbtBlf6 A	Soli5	8012 6 a	

HPLC/IC

Leach Batch: 9560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	Solpble	Soli5	DI 7eBcT	
890-1402-r	Pd 03A	Solpble	Soli5	DI 7eBcT	
890-1402-3	Pd 03h	Solpble	Soli5	DI 7eBcT	
890-1402-4	Pd 03C	Solpble	Soli5	DI 7eBcT	
a h 880-92k0Pf-A	a etTo5 hIBnN	Solpble	Soli5	DI 7eBcT	
7CS 880-92k0fr -A	7Bb Contjol SBL mle	Solpble	Soli5	DI 7eBcT	
7CSD 880-92k0f3-A	7Bb Contjol SBL mle Dpm	Solpble	Soli5	DI 7eBcT	
880-E092-A-1-h a S	a BtjiX SmiNe	Solpble	Soli5	DI 7eBcT	
880-E092-A-1-C a SD	a BtjiX SmiNe DpmlicBte	Solpble	Soli5	DI 7eBcT	

Analysis Batch: 9759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 03	Solpble	Soli5	300.0	92k0
890-1402-r	Pd 03A	Solpble	Soli5	300.0	92k0
890-1402-3	Pd 03h	Solpble	Soli5	300.0	92k0
890-1402-4	Pd 03C	Solpble	Soli5	300.0	92k0
a h 880-92k0Pf-A	a etTo5 hIBnN	Solpble	Soli5	300.0	92k0
7CS 880-92k0fr -A	7Bb Contjol SBL mle	Solpble	Soli5	300.0	92k0
7CSD 880-92k0f3-A	7Bb Contjol SBL mle Dpm	Solpble	Soli5	300.0	92k0
880-E092-A-1-h a S	a BtjiX SmiNe	Solpble	Soli5	300.0	92k0
880-E092-A-1-C a SD	a BtjiX SmiNe DpmlicBte	Solpble	Soli5	300.0	92k0

upjofins xenco, CBjlsbB5

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03

Date Collected: 10/05/21 11:05
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTl/NA	Pre5	2032			2.00 a	2 g L	9466	10/14/p1 1p:43	KL	XEN MID
7otTl/NA	AnTlnyiy	80p1s		1	2 g L	2 g L	9649	10/19/p1 01:14	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/p1 13:4p	AJ	XEN MID
7otTl/NA	AnTlnyiy	8012 NM		1			9896	10/19/p1 13:p2	AJ	XEN MID
7otTl/NA	Pre5	8012NM Pre5			10.0p a	10 g L	9483	10/14/p1 14:p9	DM	XEN MID
7otTl/NA	AnTlnyiy	8012s NM		1			9296	10/1R/p1 18:38	AJ	XEN MID
Soluble	LeTch	DI LeTch			2.03 a	20 g L	9260	10/12/p1 1R:31	CA	XEN MID
Soluble	AnTlnyiy	300.0		1			9R29	10/18/p1 18:30	SC	XEN MID

Client Sample ID: PH03A

Date Collected: 10/05/21 11:07
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTl/NA	Pre5	2032			2.02 a	2 g L	9466	10/14/p1 1p:43	KL	XEN MID
7otTl/NA	AnTlnyiy	80p1s		1	2 g L	2 g L	9649	10/19/p1 01:34	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/p1 13:4p	AJ	XEN MID
7otTl/NA	AnTlnyiy	8012 NM		1			9896	10/19/p1 13:p2	AJ	XEN MID
7otTl/NA	Pre5	8012NM Pre5			10.04 a	10 g L	9483	10/14/p1 14:p9	DM	XEN MID
7otTl/NA	AnTlnyiy	8012s NM		1			9296	10/1R/p1 18:29	AJ	XEN MID
Soluble	LeTch	DI LeTch			2.01 a	20 g L	9260	10/12/p1 1R:31	CA	XEN MID
Soluble	AnTlnyiy	300.0		1			9R29	10/18/p1 18:36	SC	XEN MID

Client Sample ID: PH03B

Date Collected: 10/05/21 11:10
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTl/NA	Pre5	2032			2.00 a	2 g L	9466	10/14/p1 1p:43	KL	XEN MID
7otTl/NA	AnTlnyiy	80p1s		1	2 g L	2 g L	9649	10/19/p1 01:22	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/p1 13:4p	AJ	XEN MID
7otTl/NA	AnTlnyiy	8012 NM		1			9896	10/19/p1 13:p2	AJ	XEN MID
7otTl/NA	Pre5	8012NM Pre5			10.02 a	10 g L	9483	10/14/p1 14:p9	DM	XEN MID
7otTl/NA	AnTlnyiy	8012s NM		1			9296	10/1R/p1 19:pp	AJ	XEN MID
Soluble	LeTch	DI LeTch			2.04 a	20 g L	9260	10/12/p1 1R:31	CA	XEN MID
Soluble	AnTlnyiy	300.0		1			9R29	10/19/p1 11:48	SC	XEN MID

Client Sample ID: PH03C

Date Collected: 10/05/21 11:15
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTl/NA	Pre5	2032			2.01 a	2 g L	9466	10/14/p1 1p:43	KL	XEN MID
7otTl/NA	AnTlnyiy	80p1s		1	2 g L	2 g L	9649	10/19/p1 0p:12	MB	XEN MID
7otTl/NA	AnTlnyiy	7otTl s 7EX		1			9900	10/19/p1 13:4p	AJ	XEN MID

Euro=ny Xencof CTrlybT,

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03C

Date Collected: 10/05/21 11:15
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTl/NA	AnTlmyiy	8012 NM		1			10003	10/p0/p1 14:09	AJ	XEN MID
7otTl/NA	Pre5	8012NM Pre5			10.00 a	10 g L	9483	10/14/p1 14:p9	DM	XEN MID
7otTl/NA	AnTlmyiy	8012s NM		1			9296	10/1R/p1 19:4p	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.96 a	20 g L	9260	10/12/p1 1R:31	CA	XEN MID
Soluble	AnTlmyiy	300.0		1			9R29	10/19/p1 11:24	SC	XEN MID

Laboratory References:

XEN MID d Euro=iny Xencof Mi, ITn, f 1p11 W. Flori, T Avef Mi, ITn, f 7X R9R01f 7EL (43p)R04-2440

Euro=iny Xencof CTrlybT,

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140s909.110

Laboratory: Eurofins Xenco, Midland

Unlehh otwerd ihe note, ayll ynylf teh vor twih lyborytorf d ere couere, Tn, er eycwyccre, itytion/certivicytion belod .

Authority	Program	Identification Number	Expiration Date
xeNyh	EL7AP	x104604400-s1-ss	0g-30-ss

xwe vollod inp ynylf teh yre inclT, e, in twih remortabTt twe lyborytorf ih not certivie, bf twe pouerninp yTtworitf . xwih liht Myf inclT, e ynylf teh vor d wicw twe ypencf , oeh not ower certivicytion .

Anylf hih 5 etwo,	Prem5 etwo,	5 ytriN	Anylf te
8012 E5		Soli,	xotyl xPH
xotyl BxLX		Soli,	xotyl BxLX

L Trovinh XencoaCyrlhby,

Method Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 0116

Job ID: 890-1402-1
SDG: 3140r 909.110

Method	Method Description	Protocol	Laboratory
80r 1V	aolCtile g jmCnic Cop uodns( )GCX	SW84B	ENM T ID
LotCl VLNE	LotCl VLNE CCIcdICtion	LA5 Sg P	ENM T ID
8012 MT	Die(el RCnme g jmCnic( )DRg X)GCX	SW84B	ENM T ID
8012V MT	Die(el RCnme g jmCnic( )DRg X)GCX	SW84B	ENM T ID
300.0	Anion(, Ion Chjop CtomjCuhy	T CAWW	ENM T ID
2032	Clo(es Sy(tep Pdjme Cns LjCu	SW84B	ENM T ID
8012MT Pjeu	T icjoextjCction	SW84B	ENM T ID
DI 5eCch	DeioniHes WCtej 5eCchinmPjocesdje	ASLT	ENM T ID

Protocol References:

ASLT = ASLT IntejnCtionCl

T CAWW = "T ethos(zoj Chep icCl AnCly(i(g f WCtej Ans WC(te(", NPA-B00F4-79-0r 0, T Cjch 1983 Ans Sdb(eqdent Revi(ion(.

SW84B = "Le(t T ethos(zoj NvCldCtinmSolis WC(te, Phy(icCIFChep icCl T ethos(", Lhijs Nsition, Movep bej 198B Ans It(UusCte(.

LA5 Sg P = Le(tAp ejicO5CbojCtojie(, StCnsCjs g uejCtinmPjocesdje

Laboratory References:

ENM T ID = Ndjofin(Eenco, T isICns, 1r 11 W. zIojisOAve, T isICns, LE 79701, LN5)43r X704-2440

Ndjofin(Eenco, CCjI(bCs

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1405-1
SDG: 31402909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1405-1	PH03	Solid	10/05/21 11:05	10/12/21 14:04	1
890-1405-2	PH03A	Solid	10/05/21 11:07	10/12/21 14:04	2
890-1405-3	PH03B	Solid	10/05/21 11:10	10/12/21 14:04	3
890-1405-4	PH03C	Solid	10/05/21 11:15	10/12/21 14:04	4

Chain of Custody

XENCO LABORATORIES
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/US ☐ TRR ☐ Level III ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.6/2.4	Thermometer ID	TNM-227
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
PH03	S	10/5/2021	1105	1'	1			
PH03A	S	10/5/2021	1107	2'	1			
PH03B	S	10/5/2021	1110	3'	1			
PH03C	S	10/5/2021	1115	4'	1			

890-1405 Chain of Custody

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

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			2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-459 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 #: 890-1405-1
Address: 1211 W Florida Ave	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
			Preservation Code:										
PH03 (890-1405-1)	10/5/21	11 05 Mountain		Solid			X	X	X	X	X	1	
PH03A (890-1405-2)	10/5/21	11 07 Mountain		Solid			X	X	X	X	X	1	
PH03B (890-1405-3)	10/5/21	11 10 Mountain		Solid			X	X	X	X	X	1	
PH03C (890-1405-4)	10/5/21	11 15 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: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by: Clue 10·12·21	Date/Time:	Company	Received by: Kramer	Date/Time: 10·13·21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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: 1 6/1·7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1405-1
SDG Number: 31402909.110

Login Number: 1405
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: 890-1405-1
SDG Number: 31402909.110

Login Number: 1405
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/21 12:17 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1406-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/20/2021 1:52:58 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: Fez Fee 011H

Laboratory Job ID: 890-1406-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Job ID: 890-1406-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1406-1

Receipt
The samples were received on 10/12/2021 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9466 and analytical batch 880-9649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04A (890-1406-2), PH04B (890-1406-3), (890-1405-A-1-D) and (890-1405-A-1-B MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-9484 and analytical batch 880-9598 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH04

Date Collected: 10/05/21 11:20
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1406-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/14/21 12:43	10/19/21 02:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/14/21 12:43	10/19/21 02:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/14/21 12:43	10/19/21 02:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/14/21 12:43	10/19/21 02:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/14/21 12:43	10/19/21 02:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/14/21 12:43	10/19/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*	*7+37437 78/40*	*7+37237 +8/09*	*7*
7:4-, Fluorobenzene (Surr)	*24*		*5+ - 70+*	*7+37437 78/40*	*7+37237 +8/09*	*7*

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			10/19/21 13:42	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			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		10/14/21 14:45	10/17/21 12:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/17/21 12:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/17/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-i Cloroohd ne	*11*		*5+ - 70+*	*7+37437 74/49*	*7+37537 78/08*	*7*
o-aerTCenpl	*29*		*5+ - 70+*	*7+37437 74/49*	*7+37537 78/08*	*7*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.62**		4.97		mg/Kg			10/19/21 11:59	1

Client Sample ID: PH04A

Date Collected: 10/05/21 11:23
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1406-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 02:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 02:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 02:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 02:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 02:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*7y8*	*S76*	*5+ - 70+*	*7+37437 78/40*	*7+37237 +8/9y*	*7*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH04A

Lab Sample ID: 890-1406-2

Date Collected: 10/05/21 11:23
Date Received: 10/12/21 14:04
Sample Depth: 2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7:4-, fluorobenzene (Surr)	*1y*		*5+ - 70+*	*7+3743 87 78/40*	*7+3723 87 +8/9y*	*7*

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			10/19/21 13:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		10/14/21 14:45	10/17/21 13:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/17/21 13:32	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/17/21 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-i Cloroohd ne	*11*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 70/08*	*7*
o-aerTCenpl	*29*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 70/08*	*7*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.41**		5.04		mg/Kg			10/19/21 12:05	1

Client Sample ID: PH04B

Lab Sample ID: 890-1406-3

Date Collected: 10/05/21 11:25
Date Received: 10/12/21 14:04
Sample Depth: 3

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		10/14/21 12:43	10/19/21 03:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 03:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 03:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/14/21 12:43	10/19/21 03:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 03:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/14/21 12:43	10/19/21 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*878*	*S76*	*5+ - 70+*	*7+3743 87 78/40*	*7+3723 87 +0/7y*	*7*
7:4-, fluorobenzene (Surr)	*58*		*5+ - 70+*	*7+3743 87 78/40*	*7+3723 87 +0/7y*	*7*

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			10/19/21 13:42	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			10/19/21 13:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH04B

Lab Sample ID: 890-1406-3
Matrix: Solid
Date Collected: 10/05/21 11:25
Date Received: 10/12/21 14:04
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		10/14/21 14:45	10/17/21 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/17/21 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/17/21 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-i Cloroohd ne	*19*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 70/90*	*7*
o-aerTCenpl	*20*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 70/90*	*7*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.27		5.03		mg/Kg			10/19/21 12:11	1

Client Sample ID: PH04C

Lab Sample ID: 890-1406-4
Matrix: Solid
Date Collected: 10/05/21 11:33
Date Received: 10/12/21 14:04
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 03:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 03:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 03:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 03:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 03:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*24*		*5+ - 70+*	*7+3743 87 78/40*	*7+3723 87 +0/05*	*7*
7:4-, fluorobenzene (Surr)	*7+8*		*5+ - 70+*	*7+3743 87 78/40*	*7+3723 87 +0/05*	*7*

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			10/19/21 13:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		10/14/21 14:45	10/17/21 14:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/17/21 14:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/17/21 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-i Cloroohd ne	*2+*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 74/70*	*7*
o-aerTCenpl	*24*		*5+ - 70+*	*7+3743 87 74/49*	*7+3753 87 74/70*	*7*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH04C
Date Collected: 10/05/21 11:33
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1406-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		4.97		mg/Kg			10/19/21 12:16	1

Surrogate Summary

Client: WSP USA Inc.
Pjo/ectRSite: zeHzee 0117

Job ID: 890-1402-1
SDG: 3140r 909.110

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)
890-1406-A-1-MBS	Batjix Spike	158 S1+	r 86 S1+
890-1406-A-1-C BSD	Batjix Spike Duplicate	84	106
890-1402-1	P704	88	94
890-1402-r	P704A	12r S1+	82
890-1402-3	P704M	r 1r S1+	5r
890-1402-4	P704C	94	10r
LCS 880-9422Fl-A	Lab Contjol Sample	91	10r
LCSD 880-9422fr-A	Lab Contjol Sample Dup	88	10r
BM880-9422f6-A	Bethod Mank	99	104
BM880-9236f6-A	Bethod Mank	98	103

Surrogate Legend

MzM = 4-Mjomofluojobenl-ene (Sujj)
DzMZ = 1,4-Difluojobenl-ene (Sujj)

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)
890-1402-1	P704	88	96
890-1402-1 BS	P704	95	9r
890-1402-1 BSD	P704	94	90
890-1402-r	P704A	88	96
890-1402-3	P704M	86	93
890-1402-4	P704C	90	94
LCS 880-9484fr-A	Lab Contjol Sample	8r	91
LCSD 880-9484f3-A	Lab Contjol Sample Dup	93	91
BM880-9484Fl-A	Bethod Mank	92	106

Surrogate Legend

1CO = 1-Chlojooctane
OTP7 = o-Tejphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9466/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9466

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/21 12:43	10/19/21 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*	*7+3743387 78/40*	*7+3713387 ++/42*	*7*
794-: ,fluorobenzene (Surr)	*7+4*		*5+ - 70+*	*7+3743387 78/40*	*7+3713387 ++/42*	*7*

Lab Sample ID: LCS 880-9466/1-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Benzene			0.100	0.08026		mg/Kg		80	R0 - 130		
Toluene			0.100	0.09482		mg/Kg		95	R0 - 130		
Ethylbenzene			0.100	0.09859		mg/Kg		99	R0 - 130		
m-Xylene & p-Xylene			0.200	0.1836		mg/Kg		92	R0 - 130		
o-Xylene			0.100	0.1063		mg/Kg		106	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*17*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: LCSD 880-9466/2-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Benzene			0.100	0.1114		mg/Kg		111	R0 - 130	32	35
Toluene			0.100	0.1143		mg/Kg		114	R0 - 130	19	35
Ethylbenzene			0.100	0.1151		mg/Kg		115	R0 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2203		mg/Kg		110	R0 - 130	18	35
o-Xylene			0.100	0.11R3		mg/Kg		11R	R0 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*DD*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: 890-1405-A-1-B MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Benzene	<0.00200	U F1 F2	0.100	0.1056		mg/Kg		105	R0 - 130		
Toluene	<0.00200	U F1	0.100	0.0R530		mg/Kg		R5	R0 - 130		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

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

Lab Sample ID: 890-1405-A-1-B MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Ethylbenzene	<0.00200	U F1 F2	0.100	0.03958	F1	mg/Kg		39	R0 - 130		
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.200	0.05315	F1	mg/Kg		2R	R0 - 130		
o-Xylene	<0.00200	U F1 F2	0.100	0.008369	F1	mg/Kg		8	R0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*75D*	*S7i*	*5+ - 70+*
794-: ,fluorobenzene (Surr)	*8D2*	*S7i*	*5+ - 70+*

Lab Sample ID: 890-1405-A-1-C MSD
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.101	0.009442	F1 F2	mg/Kg		9	R0 - 130	16R	35
Toluene	<0.00200	U F1	0.101	0.0566R	F1	mg/Kg		56	R0 - 130	28	35
Ethylbenzene	<0.00200	U F1 F2	0.101	0.06685	F1 F2	mg/Kg		66	R0 - 130	51	35
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.202	0.0855R	F1 F2	mg/Kg		42	R0 - 130	4R	35
o-Xylene	<0.00200	U F1 F2	0.101	0.0R180	F2	mg/Kg		R1	R0 - 130	158	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*D4*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+2*		*5+ - 70+*

Lab Sample ID: MB 880-96. 5/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96. 5

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1D*		*5+ - 70+*	*7+37D387 +1/4+*	*7+37D387 70/78*	*7*
794-: ,fluorobenzene (Surr)	*7+0*		*5+ - 70+*	*7+37D387 +1/4+*	*7+37D387 70/78*	*7*

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

Lab Sample ID: MB 880-9484/1-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9484

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline) ange * rganics	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/1R/21 11:31	1
7G) * v-C6-C10									

Euro0ns Xenco, Carlsba(

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

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

Lab Sample ID: MB 880-9484/1-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9484

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel) ange * rganics 7* f er C10-C28v	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/1R/21 11:31	1
* ll) ange * rganics 7* f er C28-C36v	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/1R/21 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*1T*		*5+ - 70+*	*7+3743 87 74/42*	*7+3753 87 77/07*	*7*
o-peryhen6l	*7+2*		*5+ - 70+*	*7+3743 87 74/42*	*7+3753 87 77/07*	*7*

Lab Sample ID: LCS 880-9484/2-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9484

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Gasoline) ange * rganics 7G) * v-C6-C10			1000	R80.0		mg/Kg		R8	R0 - 130		
Diesel) ange * rganics 7* f er C10-C28v			1000	880.0		mg/Kg		88	R0 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*D8*		*5+ - 70+*
o-peryhen6l	*17*		*5+ - 70+*

Lab Sample ID: LCSD 880-9484/. -A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Gasoline) ange * rganics 7G) * v-C6-C10			1000	99R.9	d1	mg/Kg		100	R0 - 130	25	20
Diesel) ange * rganics 7* f er C10-C28v			1000	8R8.9		mg/Kg		88	R0 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*10*		*5+ - 70+*
o-peryhen6l	*17*		*5+ - 70+*

Lab Sample ID: 890-1406-1 MS
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: P3 04
Prep Type: Total/NA
Prep Batch: 9484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Gasoline) ange * rganics 7G) * v-C6-C10	<49.9	U d1	99R	939.6		mg/Kg		90	R0 - 130		
Diesel) ange * rganics 7* f er C10-C28v	<49.9	U	99R	894.R		mg/Kg		90	R0 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-Chlorooctane	*15*		*5+ - 70+*
o-peryhen6l	*18*		*5+ - 70+*

Euro0ns Xenco, Carlsba(

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

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

Lab Sample ID: 890-1406-1 MSD
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: P3 04
Prep Type: Total/NA
Prep Batch: 9484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Gasoline) ange * rganics 7G) * v-C6-C10	<49.9	U d1	1000	9R4.1		mg/Kg		93	R0 - 130	4	20
Diesel) ange * rganics 7* f er C10-C28v	<49.9	U	1000	880.8		mg/Kg		88	R0 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-Chlorooctane	*14*		*5+ - 70+*
o-peryhen6l	*1+*		*5+ - 70+*

Method: . 00%a - AnionsHon Chromatography

Lab Sample ID: MB 880-9560/1-A
Matrix: Solid
Analysis Batch: 9, 59

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chlori(e	<5.00	U	5.00		mg/Kg			10/18/21 16:3R	1

Lab Sample ID: LCS 880-9560/2-A
Matrix: Solid
Analysis Batch: 9, 59

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Chlori(e			250	240.8		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-9560/. -A
Matrix: Solid
Analysis Batch: 9, 59

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Chlori(e			250	241.5		mg/Kg		9R	90 - 110	0	20

Lab Sample ID: 880-, 095-A-1-B MS
Matrix: Solid
Analysis Batch: 9, 59

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	7 Rec	7 Rec% Limits		
Chlori(e	311		248	544.3		mg/Kg		94	90 - 110		

Lab Sample ID: 880-, 095-A-1-C MSD
Matrix: Solid
Analysis Batch: 9, 59

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	7 Rec	7 Rec% Limits	RPD	RPD Limit
Chlori(e	311		248	545.2		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Pjo/ectRSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC VOA

Prep Batch: 9466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lRh A	Soli5	M03M	
890-1402-r	Pd 04A	Bot6lRh A	Soli5	M03M	
890-1402-3	Pd 04a	Bot6lRh A	Soli5	M03M	
890-1402-4	Pd 04C	Bot6lRh A	Soli5	M03M	
k a 880-9422RMA	k etTo5 al6nN	Bot6lRh A	Soli5	M03M	
7CS 880-9422R1-A	76b Contjol S6L mle	Bot6lRh A	Soli5	M03M	
7CSD 880-9422Rr-A	76b Contjol S6L mle Dpm	Bot6lRh A	Soli5	M03M	
890-140MA-1-a k S	k 6tjiu SmiNe	Bot6lRh A	Soli5	M03M	
890-140MA-1-C k SD	k 6tjiu SmiNe Dpmlic6te	Bot6lRh A	Soli5	M03M	

Prep Batch: 9635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
k a 880-923MRMA	k etTo5 al6nN	Bot6lRh A	Soli5	M03M	

Analysis Batch: 9649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lRh A	Soli5	80r 1a	9422
890-1402-r	Pd 04A	Bot6lRh A	Soli5	80r 1a	9422
890-1402-3	Pd 04a	Bot6lRh A	Soli5	80r 1a	9422
890-1402-4	Pd 04C	Bot6lRh A	Soli5	80r 1a	9422
k a 880-9422RMA	k etTo5 al6nN	Bot6lRh A	Soli5	80r 1a	9422
k a 880-923MRMA	k etTo5 al6nN	Bot6lRh A	Soli5	80r 1a	923M
7CS 880-9422R1-A	76b Contjol S6L mle	Bot6lRh A	Soli5	80r 1a	9422
7CSD 880-9422Rr-A	76b Contjol S6L mle Dpm	Bot6lRh A	Soli5	80r 1a	9422
890-140MA-1-a k S	k 6tjiu SmiNe	Bot6lRh A	Soli5	80r 1a	9422
890-140MA-1-C k SD	k 6tjiu SmiNe Dpmlic6te	Bot6lRh A	Soli5	80r 1a	9422

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lRh A	Soli5	Bot6l aBx E	
890-1402-r	Pd 04A	Bot6lRh A	Soli5	Bot6l aBx E	
890-1402-3	Pd 04a	Bot6lRh A	Soli5	Bot6l aBx E	
890-1402-4	Pd 04C	Bot6lRh A	Soli5	Bot6l aBx E	

GC Semi VOA

Prep Batch: 9484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lRh A	Soli5	801Mh k Pjem	
890-1402-r	Pd 04A	Bot6lRh A	Soli5	801Mh k Pjem	
890-1402-3	Pd 04a	Bot6lRh A	Soli5	801Mh k Pjem	
890-1402-4	Pd 04C	Bot6lRh A	Soli5	801Mh k Pjem	
k a 880-9484R1-A	k etTo5 al6nN	Bot6lRh A	Soli5	801Mh k Pjem	
7CS 880-9484Rr-A	76b Contjol S6L mle	Bot6lRh A	Soli5	801Mh k Pjem	
7CSD 880-9484R3-A	76b Contjol S6L mle Dpm	Bot6lRh A	Soli5	801Mh k Pjem	
890-1402-1 k S	Pd 04	Bot6lRh A	Soli5	801Mh k Pjem	
890-1402-1 k SD	Pd 04	Bot6lRh A	Soli5	801Mh k Pjem	

Analysis Batch: 9598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lRh A	Soli5	801Ma hk	9484

QC Association Summary

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC Semi VOA (Continued)

Analysis Batch: 9598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-r	Pd 04A	Bot6lfh A	Soli5	801Ma h k	9484
890-1402-3	Pd 04a	Bot6lfh A	Soli5	801Ma h k	9484
890-1402-4	Pd 04C	Bot6lfh A	Soli5	801Ma h k	9484
k a 880-9484f1-A	k etTo5 al6nN	Bot6lfh A	Soli5	801Ma h k	9484
7CS 880-9484fr -A	76b Contjol S6L mle	Bot6lfh A	Soli5	801Ma h k	9484
7CSD 880-9484f3-A	76b Contjol S6L mle Dpm	Bot6lfh A	Soli5	801Ma h k	9484
890-1402-1 k S	Pd 04	Bot6lfh A	Soli5	801Ma h k	9484
890-1402-1 k SD	Pd 04	Bot6lfh A	Soli5	801Ma h k	9484

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Bot6lfh A	Soli5	801Mh k	
890-1402-r	Pd 04A	Bot6lfh A	Soli5	801Mh k	
890-1402-3	Pd 04a	Bot6lfh A	Soli5	801Mh k	
890-1402-4	Pd 04C	Bot6lfh A	Soli5	801Mh k	

HPLC/IC

Leach Batch: 9560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Solpble	Soli5	DI 7e6cT	
890-1402-r	Pd 04A	Solpble	Soli5	DI 7e6cT	
890-1402-3	Pd 04a	Solpble	Soli5	DI 7e6cT	
890-1402-4	Pd 04C	Solpble	Soli5	DI 7e6cT	
k a 880-9M20f1-A	k etTo5 al6nN	Solpble	Soli5	DI 7e6cT	
7CS 880-9M20fr -A	76b Contjol S6L mle	Solpble	Soli5	DI 7e6cT	
7CSD 880-9M20f3-A	76b Contjol S6L mle Dpm	Solpble	Soli5	DI 7e6cT	
880-, 09M-A-1-a k S	k 6tjiu SmiNe	Solpble	Soli5	DI 7e6cT	
880-, 09M-A-1-C k SD	k 6tjiu SmiNe Dpmlic6te	Solpble	Soli5	DI 7e6cT	

Analysis Batch: 9759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 04	Solpble	Soli5	300.0	9M20
890-1402-r	Pd 04A	Solpble	Soli5	300.0	9M20
890-1402-3	Pd 04a	Solpble	Soli5	300.0	9M20
890-1402-4	Pd 04C	Solpble	Soli5	300.0	9M20
k a 880-9M20f1-A	k etTo5 al6nN	Solpble	Soli5	300.0	9M20
7CS 880-9M20fr -A	76b Contjol S6L mle	Solpble	Soli5	300.0	9M20
7CSD 880-9M20f3-A	76b Contjol S6L mle Dpm	Solpble	Soli5	300.0	9M20
880-, 09M-A-1-a k S	k 6tjiu SmiNe	Solpble	Soli5	300.0	9M20
880-, 09M-A-1-C k SD	k 6tjiu SmiNe Dpmlic6te	Solpble	Soli5	300.0	9M20

xpjoXnf EencosC6jlf b65

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03

Date Collectex: 10d0/ d21 11:20
Date Receivex: 10dl2d21 13:03

Lab Sample ID: 890-1304-1

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTl/MA	Pre5	K03K			4.98 a	K g X	9422	10/14/p1 1p:43	LX	ENM 6 ID
7otTl/MA	AnTlnyiy	80p1s		1	K g X	K g X	9249	10/19/p1 0p:3K	6 B	ENM 6 ID
7otTl/MA	AnTlnyiy	7otTl s 7NE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
7otTl/MA	AnTlnyiy	801K M6		1			9892	10/19/p1 13:pK	AJ	ENM 6 ID
7otTl/MA	Pre5	801KM6 Pre5			10.0p a	10 g X	9484	10/14/p1 14:4K	D6	ENM 6 ID
7otTl/MA	AnTlnyiy	801Ks M6		1			9K98	10/1R/p1 1p:3p	AJ	ENM 6 ID
Soluble	XeTch	DI XeTch			K.03 a	K0 g X	9K20	10/1K/p1 1R:31	CA	ENM 6 ID
Soluble	AnTlnyiy	300.0		1			9RK9	10/19/p1 11:K9	SC	ENM 6 ID

Client Sample ID: PH03A

Date Collectex: 10d0/ d21 11:27
Date Receivex: 10dl2d21 13:03

Lab Sample ID: 890-1304-2

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTl/MA	Pre5	K03K			K.03 a	K g X	9422	10/14/p1 1p:43	LX	ENM 6 ID
7otTl/MA	AnTlnyiy	80p1s		1	K g X	K g X	9249	10/19/p1 0p:K2	6 B	ENM 6 ID
7otTl/MA	AnTlnyiy	7otTl s 7NE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
7otTl/MA	AnTlnyiy	801K M6		1			9892	10/19/p1 13:pK	AJ	ENM 6 ID
7otTl/MA	Pre5	801KM6 Pre5			10.0K a	10 g X	9484	10/14/p1 14:4K	D6	ENM 6 ID
7otTl/MA	AnTlnyiy	801Ks M6		1			9K98	10/1R/p1 13:3p	AJ	ENM 6 ID
Soluble	XeTch	DI XeTch			4.92 a	K0 g X	9K20	10/1K/p1 1R:31	CA	ENM 6 ID
Soluble	AnTlnyiy	300.0		1			9RK9	10/19/p1 1p:0K	SC	ENM 6 ID

Client Sample ID: PH03B

Date Collectex: 10d0/ d21 11:2/
Date Receivex: 10dl2d21 13:03

Lab Sample ID: 890-1304-7

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTl/MA	Pre5	K03K			4.99 a	K g X	9422	10/14/p1 1p:43	LX	ENM 6 ID
7otTl/MA	AnTlnyiy	80p1s		1	K g X	K g X	9249	10/19/p1 03:12	6 B	ENM 6 ID
7otTl/MA	AnTlnyiy	7otTl s 7NE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
7otTl/MA	AnTlnyiy	801K M6		1			9892	10/19/p1 13:pK	AJ	ENM 6 ID
7otTl/MA	Pre5	801KM6 Pre5			10.0p a	10 g X	9484	10/14/p1 14:4K	D6	ENM 6 ID
7otTl/MA	AnTlnyiy	801Ks M6		1			9K98	10/1R/p1 13:K3	AJ	ENM 6 ID
Soluble	XeTch	DI XeTch			4.9R a	K0 g X	9K20	10/1K/p1 1R:31	CA	ENM 6 ID
Soluble	AnTlnyiy	300.0		1			9RK9	10/19/p1 1p:11	SC	ENM 6 ID

Client Sample ID: PH03C

Date Collectex: 10d0/ d21 11:77
Date Receivex: 10dl2d21 13:03

Lab Sample ID: 890-1304-3

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTl/MA	Pre5	K03K			K.0p a	K g X	9422	10/14/p1 1p:43	LX	ENM 6 ID
7otTl/MA	AnTlnyiy	80p1s		1	K g X	K g X	9249	10/19/p1 03:3R	6 B	ENM 6 ID
7otTl/MA	AnTlnyiy	7otTl s 7NE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03C

Date Collectex: 10d0/ d21 11:77
Date Receivex: 10d12d21 13:03

Lab Sample ID: 890-1304-3

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTl/MA	AnTlmyiy	801K M6		1			9892	10/19/p1 13:pK	AJ	ENM 6 ID
7otTl/MA	Pre5	801KM6 Pre5			10.04 a	10 g X	9484	10/14/p1 14:4K	D6	ENM 6 ID
7otTl/MA	AnTlmyiy	801Ks M6		1			9K98	10/1R/p1 14:13	AJ	ENM 6 ID
Soluble	XeTch	DI XeTch			K.03 a	K0 g X	9K20	10/1K/p1 1R:31	CA	ENM 6 ID
Soluble	AnTlmyiy	300.0		1			9RK9	10/19/p1 1p:12	SC	ENM 6 ID

Laboratory References:

ENM 6 ID d Nuro÷iny Eencof 6 i, ITn, f 1p11 W. Flori, T Avef 6 i, ITn, f 7E R9R01f 7NX(43p)R04-K440

Nuro÷iny Eencof CTrlybT,

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140s909.110

Laboratory: Eurofins Xenco, Midland

Unlehh otwerd ihe note, ayll ynylf teh vor twih lyborytorf d ere couere, Tn, er eycwyccre, itytion/certivicytion belod .

Authority	Program	Identification Number	Expiration Date
xeNyh	EL7AP	x104604400-s1-ss	02-30-ss

xwe vollod ing ynylf teh yre inclT, e, in twih reportabTt twe lyborytorf ih not certivie, bf twe gouerning yTtworitf . xwih liht myf inclT, e ynylf teh vor d wicw twe ygencf , oeh not ower certivicytion .

Anylf hih Metwo,	Prep Metwo,	MytriN	Anylf te
8015 EM		Soli,	xotyl xPH
xotyl BxLX		Soli,	xotyl BxLX

L Trovinh XencoaCyrlhby,

Method Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 0116

Job ID: 890-1402-1
SDG: 3140r 909.110

Method	Method Description	Protocol	Laboratory
80r 1B	Volatile Ojganic Compounds (GC)	SW842	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Ojganics (DRO) (GC)	SW842	XEN MID
8015B NM	Diesel Range Ojganics (DRO) (GC)	SW842	XEN MID
300.0	Anions, Ion Chjomatogjaphy	MCAWW	XEN MID
5035	Closed System Pujge and Tjap	SW842	XEN MID
8015NM Pjep	Micjoextjaction	SW842	XEN MID
DI Leach	DeioniHed Watej Leaching Pjoceduje	ASTM	XEN MID

Protocol References:

ASTM = ASTM Intejnational

MCAWW = "Methods zoj Chemical Analysis Of Watej And Wastes", EPA-200F4-79-0r 0, Majch 1983 And Subsequent Revisions.

SW842 = "Test Methods zoj Evaluating Solid Waste, PhysicalFChemical Methods", Thijd Edition, Novembej 1982 And Its Updates.

TAL SOP = TestAmejica Labojatojies, Standajd Opejating Pjoceduje

Laboratory References:

XEN MID = Eujofins Xenco, Midland, 1r 11 W. zlojida Ave, Midland, TX 79701, TEL (43r)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1406-1	PH04	Solid	10/05/21 11:20	10/12/21 14:04	1
890-1406-2	PH04A	Solid	10/05/21 11:23	10/12/21 14:04	2
890-1406-3	PH04B	Solid	10/05/21 11:25	10/12/21 14:04	3
890-1406-4	PH04C	Solid	10/05/21 11:33	10/12/21 14:04	4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

www.xenco.com

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	2.6 | 2.4	Thermometer ID	
Received Intact:	(Yes) No		NM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

890-1406 Chain of Custody

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
PH04	S	10/5/2021	1120	1'	1				
PH04A	S	10/5/2021	1123	2'	1				
PH04B	S	10/5/2021	1125	3'	1				
PH04C	S	10/5/2021	1133	4'	1				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471 : Hg**

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10-12-21 14:00	2		10.8.21 1402
3				4		
5				6		

Revised Date101419 Rev 2019.1

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: 890-459 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 #: 890-1406-1
Address: 1211 W Florida Ave,	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH04 (890-1406-1)	10/5/21	11 20 Mountain		Solid			X	X	X	X	X	1	
PH04A (890-1406-2)	10/5/21	11 23 Mountain		Solid			X	X	X	X	X	1	
PH04B (890-1406-3)	10/5/21	11 25 Mountain		Solid			X	X	X	X	X	1	
PH04C (890-1406-4)	10/5/21	11 33 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 compliance to Eurofins Xenco LLC.

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Ace 10.12.21			Received by: J Kramer	10.13 21	
Relinquished by	Date/Time	Company	Received by	Date/Time	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: 1.6/1.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 3140T909.110

Login Number: 1406
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
h' e coolersd cudtoya de, lf ipvredentf id int, ct.	hrue	
S, mvle cudtoya de, ldf ipvredentf , re int, ct.	hrue	
h' e cooler or d, mvled yo not , vve, r to ' , we been comvromidey or t, mverey Oit' .	hrue	
S, mvled Oere receiwey on ice.	hrue	
Cooler hemver, ture id , ccevt, ble.	hrue	
Cooler hemver, ture id recoryey.	hrue	
Ck C id vredent.	hrue	
Ck C id pilley out in ing , ny leFible.	hrue	
Ck C id pilley out Oit' , ll vertinent inporm, tion.	hrue	
Id t' e ?iely S, mvlersd n, me vredent on Ck CH	hrue	
h' ere , re no yidcrev, ncied betOeen t' e cont, inerd receiwey , ny t' e Ck C.	hrue	
S, mvled , re receiwey Oit' in (olyinF hime xe) cluyinF tedtd Oit' immeyi, te (hd/	hrue	
S, mvle cont, inerd ' , we leFible l, beld.	hrue	
Cont, inerd , re not brogen or le, ginF.	hrue	
S, mvle collection y, teVimed , re vrowiyey.	hrue	
Avvrovri, te d, mvle cont, inerd , re udey.	hrue	
S, mvle bottled , re comvletela pilley.	hrue	
S, mvle Prederw, tion qeripiey.	N\A	
h' ere id duppicient wol. por , ll reMuedtey , n, ladedf incl. , na reMuedtey z SVz SDd	hrue	
Cont, inerd reMuirinF <ero ' e, ydv, ce ' , we no ' e, ydv, ce or bubble id 62mm x1V4"/.	N\A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 3140T909.110

Login Number: 1406
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/21 12:17 PM

Question	Answer	Comment
h' e coolersd cudtoya de, lf ipvredentf id int, ct.	N\A	
S, mvle cudtoya de, ldf ipvredentf , re int, ct.	N\A	
h' e cooler or d, mvled yo not , vve, r to ' , we been comvromidey or t, mverey Oit' .	hrue	
S, mvled Oere receiwey on ice.	hrue	
Cooler hemver, ture id , ccevt, ble.	hrue	
Cooler hemver, ture id recoryey.	hrue	1.2\1.7
Ck C id vredent.	hrue	
Ck C id pilley out in ing , ny leFible.	hrue	
Ck C id pilley out Oit' , ll vertinent inporm, tion.	hrue	
Id t' e ?iely S, mvlersd n, me vredent on Ck CH	hrue	
h' ere , re no yidcrev, ncied betOeen t' e cont, inerd receiwey , ny t' e Ck C.	hrue	
S, mvled , re receiwey Oit' in (olyinF hime xe) cluyinF tedtd Oit' immeyi, te (hd/	hrue	
S, mvle cont, inerd ' , we leFible l, beld.	hrue	
Cont, inerd , re not brogen or le, ginF.	hrue	
S, mvle collection y, te\timed , re vrowiyey.	hrue	
Avvrovri, te d, mvle cont, inerd , re udey.	hrue	
S, mvle bottled , re comvletela pilley.	hrue	
S, mvle Prederw, tion qeripiey.	hrue	
h' ere id duppicient wol. por , ll reMuedtey , n, ladedf incl. , na reMuedtey z S\t SDd	hrue	
Cont, inerd reMuirinF <ero ' e, ydv, ce ' , we no ' e, ydv, ce or bubble id 62mm x1\4"/.	N\A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1407-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/20/2021 1:53:13 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: Fez Fee 011H

Laboratory Job ID: 890-1407-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1407-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1407-1
SDG: 31402909.110

Job ID: 890-1406-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1406-1

Receipt
The samples were received on 10/12/2021 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9466 and analytical batch 880-9649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH05C (890-1407-4), (890-1405-A-1-D) and (890-1405-A-1-B MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-9484 and analytical batch 880-9598 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH05

Lab Sample ID: 890-1407-1
Matrix: Solid
Date Collected: 10/05/21 11:40
Date Received: 10/12/21 14:04
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		10/14/21 12:43	10/19/21 03:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/14/21 12:43	10/19/21 03:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/14/21 12:43	10/19/21 03:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/14/21 12:43	10/19/21 03:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/14/21 12:43	10/19/21 03:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/14/21 12:43	10/19/21 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15*		*+7 - 507*	*573543B5 58/40*	*573513B5 70/2+*	*5*
594-: ,fluorobenzene (Surr)	*D2*		*+7 - 507*	*573543B5 58/40*	*573513B5 70/2+*	*5*

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			10/19/21 13:42	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			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C* -C10	<49.9	U 71	49.9		mg/Kg		10/14/21 14:45	10/16/21 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/16/21 14:33	1
Oll Range Organics (Over C28-C3*)	<49.9	U	49.9		mg/Kg		10/14/21 14:45	10/16/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
5-i Cloroohd ne	*D+*		*+7 - 507*	*573543B5 54/42*	*573+33B5 54/00*	*5*
o-aerTCenpl	*1+*		*+7 - 507*	*573543B5 54/42*	*573+33B5 54/00*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		4.99		mg/Kg			10/19/21 12:22	1

Client Sample ID: PH05A

Lab Sample ID: 890-1407-2
Matrix: Solid
Date Collected: 10/05/21 11:42
Date Received: 10/12/21 14:04
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		10/14/21 12:43	10/19/21 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/21 12:43	10/19/21 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 04:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/21 12:43	10/19/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*+8*		*+7 - 507*	*573543B5 58/40*	*573513B5 74/5+*	*5*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH05A

Lab Sample ID: 890-1407-2

Date Collected: 10/05/21 11:42
Date Received: 10/12/21 14:04
Sample Depth: 2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
594-: ,fluorobenzene (Surr)	*+D*		*+7 - 507*	*573543385 58/40*	*573513385 74/5+*	*5*

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			10/19/21 13:42	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			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C* -C10	<50.0	U 71	50.0		mg/Kg		10/14/21 14:45	10/16/21 14:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 14:53	1
OII Range Organics (Over C28-C3*)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
5-i Cloroohd ne	*18*		*+7 - 507*	*573543385 54/42*	*573+3385 54/20*	*5*
o-aerTCenpl	*570*		*+7 - 507*	*573543385 54/42*	*573+3385 54/20*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.4**		4.95		mg/Kg			10/18/21 20:11	1

Client Sample ID: PH05B

Lab Sample ID: 890-1407-3

Date Collected: 10/05/21 11:47
Date Received: 10/12/21 14:04
Sample Depth: 3

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		10/14/21 12:43	10/19/21 0*:0*	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 0*:0*	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 0*:0*	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/14/21 12:43	10/19/21 0*:0*	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 0*:0*	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/14/21 12:43	10/19/21 0*:0*	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*18*		*+7 - 507*	*573543385 58/40*	*573513385 7y/7y*	*5*
594-: ,fluorobenzene (Surr)	*+7*		*+7 - 507*	*573543385 58/40*	*573513385 7y/7y*	*5*

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			10/19/21 13:42	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			10/19/21 13:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH05B

Lab Sample ID: 890-1407-3
Matrix: Solid
Date Collected: 10/05/21 11:47
Date Received: 10/12/21 14:04
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)-C* -C10	<50.0	U 71	50.0		mg/Kg		10/14/21 14:45	10/16/21 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 15:14	1
Oll Range Organics (Over C28-C3*)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
5-i Cloroohd ne	*17*		*+7 - 507*	*573543l35 54/42*	*573+3l35 52/54*	*5*
o-aerTCenpl	*578*		*+7 - 507*	*573543l35 54/42*	*573+3l35 52/54*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	727		5.03		mg/Kg			10/18/21 20:28	1

Client Sample ID: PH05C

Lab Sample ID: 890-1407-4
Matrix: Solid
Date Collected: 10/05/21 11:54
Date Received: 10/12/21 14:04
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/14/21 12:43	10/19/21 0* :26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*Dy*		*+7 - 507*	*573543l35 58/40*	*573513l35 7y/8+*	*5*
594-: ,fluorobenzene (Surr)	*542*	*S56*	*+7 - 507*	*573543l35 58/40*	*573513l35 7y/8+*	*5*

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			10/19/21 13:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/19/21 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C* -C10	<49.8	U 71	49.8		mg/Kg		10/14/21 14:45	10/16/21 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/16/21 15:34	1
Oll Range Organics (Over C28-C3*)	<49.8	U	49.8		mg/Kg		10/14/21 14:45	10/16/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
5-i Cloroohd ne	*D1*		*+7 - 507*	*573543l35 54/42*	*573+3l35 52/04*	*5*
o-aerTCenpl	*11*		*+7 - 507*	*573543l35 54/42*	*573+3l35 52/04*	*5*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Client Sample ID: PH05C
Date Collected: 10/05/21 11:54
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1407-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	585		5.03		mg/Kg			10/18/21 20:34	1

Surrogate Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 0117

Job ID: 890-1402-1
SDG: 3140r 909.110

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)										
890-140+-A-1-6 MS	MBtjia Sxipe	128 S15	r 8+ S15										
890-140+-A-1-C MSD	MBtjia Sxipe DkxlicBte	84	10+										
890-1402-1	P7 0+	91	8+										
890-1402-r	P7 0+A	2r	28										
890-1402-3	P7 0+6	9r	20										
890-1402-4	P7 0+C	8u	14+ S15										
LCS 880-94uuF1-A	LBb Contjol SBmxle	91	10r										
LCSD 880-94uuFr-A	LBb Contjol SBmxle Dkx	88	10r										
M6 880-94uuF+-A	Method 6IBnp	99	104										
M6 880-9u3+F+-A	Method 6IBnp	98	103										

Surrogate Legend

6z6 = 4-6jomoflkojobenHene (Skjj)
Dz6Z = 1,4-DiflkojobenHene (Skjj)

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)										
890-140u-A-1-D MS	MBtjia Sxipe	92	9r										
890-140u-A-1-O MSD	MBtjia Sxipe DkxlicBte	94	90										
890-1402-1	P7 0+	82	92										
890-1402-r	P7 0+A	9r	103										
890-1402-3	P7 0+6	90	10r										
890-1402-4	P7 0+C	89	99										
LCS 880-9484Fr-A	LBb Contjol SBmxle	8r	91										
LCSD 880-9484F3-A	LBb Contjol SBmxle Dkx	93	91										
M6 880-9484F1-A	Method 6IBnp	9u	10+										

Surrogate Legend

1CT = 1-ChlojooctBne
TyP7 = o-yejxhenEl

Okjofins Xenco, CBjlsbBd

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6744/5-A
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6744

Analyte	MB Result	MB Qualifier	RL		z nit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/14/21 12:43	10/19/21 00:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/14/21 12:43	10/19/21 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*	*7+3743387 78/40*	*7+3713387 ++/42*	*7*
794-: ,fluorobenzene (Surr)	*7+4*		*5+ - 70+*	*7+3743387 78/40*	*7+3713387 ++/42*	*7*

Lab Sample ID: LCS 880-6744/1-A
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6744

Analyte			Spike Added	LCS Result	LCS Qualifier	z nit	D	f Rec	Rec% Limits		
Benzene			0.100	0.0802R		mg/Kg		80	60 - 130		
Toluene			0.100	0.09482		mg/Kg		95	60 - 130		
Ethylbenzene			0.100	0.09859		mg/Kg		99	60 - 130		
m-Xylene & p-Xylene			0.200	0.183R		mg/Kg		92	60 - 130		
o-Xylene			0.100	0.10R3		mg/Kg		10R	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*17*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: LCSD 880-6744/2-A
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6744

Analyte			Spike Added	LCSD Result	LCSD Qualifier	z nit	D	f Rec	Rec% Limits	RPD	RPD Limit
Benzene			0.100	0.1114		mg/Kg		111	60 - 130	32	35
Toluene			0.100	0.1143		mg/Kg		114	60 - 130	19	35
Ethylbenzene			0.100	0.1151		mg/Kg		115	60 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2203		mg/Kg		110	60 - 130	18	35
o-Xylene			0.100	0.1163		mg/Kg		116	60 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*DD*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: 860-1705-A-1-B MS
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	z nit	D	f Rec	Rec% Limits		
Benzene	<0.00200	U F1 F2	0.100	0.105R		mg/Kg		105	60 - 130		
Toluene	<0.00200	U F1	0.100	0.06530		mg/Kg		65	60 - 130		

Euro0ns Xenco, Carlsba(

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

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

Lab Sample ID: 860-1705-A-1-B MS
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1 F2	0.100	0.03958	F1	mg/Kg		39	60 - 130
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.200	0.05315	F1	mg/Kg		26	60 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.00838	F1	mg/Kg		8	60 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	75	S1-	70 - 130
1,4-Difluorobenzene (Surr)	82	S1-	70 - 130

Lab Sample ID: 860-1705-A-1-C MSD
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.101	0.009442	F1 F2	mg/Kg		9	60 - 130	186	35
Toluene	<0.00200	U F1	0.101	0.05886	F1	mg/Kg		58	60 - 130	28	35
Ethylbenzene	<0.00200	U F1 F2	0.101	0.08485	F1 F2	mg/Kg		84	60 - 130	51	35
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.202	0.08556	F1 F2	mg/Kg		42	60 - 130	46	35
o-Xylene	<0.00200	U F1 F2	0.101	0.06180	F2	mg/Kg		61	60 - 130	158	35

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

Lab Sample ID: MB 880-64. 5/5-A
Matrix: Solid
Analysis Batch: 6476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64. 5

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/18/21 09:40	10/18/21 13:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/18/21 09:40	10/18/21 13:12	1

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

Lab Sample ID: MB 880-6787/1-A
Matrix: Solid
Analysis Batch: 6568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6787

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 11:31	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

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

Lab Sample ID: MB 880-6787/1-A
Matrix: Solid
Analysis Batch: 6568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6787

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (GC) C10-C28	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 11:31	1
Motor Oil Range Organics (DRO) (GC) C28-C36	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/16/21 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*10/14/21 14:45*	*10/16/21 11:31*	*1*
o-Terphenyl	*112*		*70 - 130*	*10/14/21 14:45*	*10/16/21 11:31*	*1*

Lab Sample ID: LCS 880-6787/2-A
Matrix: Solid
Analysis Batch: 6568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	680.0		mg/Kg		68	60 - 130		
Diesel Range Organics (DRO) (GC) C10-C28			1000	880.0		mg/Kg		88	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-6787/3-A
Matrix: Solid
Analysis Batch: 6568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6787

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	996.9	d1	mg/Kg		100	60 - 130	25	20
Diesel Range Organics (DRO) (GC) C10-C28			1000	868.9		mg/Kg		88	60 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: 860-1704-A-1-D MS
Matrix: Solid
Analysis Batch: 6568

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U d1	996	939.R		mg/Kg		90	60 - 130		
Diesel Range Organics (DRO) (GC) C10-C28	<49.9	U	996	894.6		mg/Kg		90	60 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*118*		*70 - 130*

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1406-1
Project/Site: Fez Fee 011H SDG: 31402909.110

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

Lab Sample ID: 860-1704-A-1-9 MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 6568 **Prep Batch: 6787**

Analyte	Sample Result	Sample QualiUer	Spike Added	MSD Result	MSD QualiUer	z nit	D	f Rec	f Rec% Limits	RPD	RPD Limit
Gasoline) ange * rganics 7G) * v-CR-C10	<49.9	U d1	1000	964.1		mg/Kg		93	60 - 130	4	20
Diesel) ange * rganics 7* f er C10-C28v	<49.9	U	1000	880.8		mg/Kg		88	60 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-Chlorooctane	*14*		*5+ - 70+*
o-peryhen6l	*1+*		*5+ - 70+*

Method: . 00%1 - AnionsHIon Chromatography

Lab Sample ID: MB 880-6540/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 6, 56

Analyte	MB Result	MB QualiUer	RL	z nit	D	Prepared	AnalyFed	Dil 3ac
Chlori(e	<5.00	U	5.00	mg/Kg			10/18/21 1R36	1

Lab Sample ID: LCS 880-6540/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 6, 56

Analyte	Spike Added	LCS Result	LCS QualiUer	z nit	D	f Rec	f Rec% Limits
Chlori(e	250	240.8		mg/Kg		9R	90 - 110

Lab Sample ID: LCSD 880-6540/. -A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 6, 56

Analyte	Spike Added	LCSD Result	LCSD QualiUer	z nit	D	f Rec	f Rec% Limits	RPD	RPD Limit
Chlori(e	250	241.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-, 065-A-1-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 6, 56

Analyte	Sample Result	Sample QualiUer	Spike Added	MS Result	MS QualiUer	z nit	D	f Rec	f Rec% Limits
Chlori(e	311		248	544.3		mg/Kg		94	90 - 110

Lab Sample ID: 880-, 065-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 6, 56

Analyte	Sample Result	Sample QualiUer	Spike Added	MSD Result	MSD QualiUer	z nit	D	f Rec	f Rec% Limits	RPD	RPD Limit
Chlori(e	311		248	545.2		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1406-1
SDG: 31402909.110

Method: . 00%a - AnionsHon Chromatography (Continued)

Lab Sample ID: MB 880-6547/1-A
Matrix: Solid
Analysis Batch: 6, 6.

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB QualiUer	RL		z nit	D	Prepared	AnalyFed	Dil 3ac
Chlori(e	<5.00	U	5.00		mg/Kg			10/18/21 19:54	1

Lab Sample ID: LCS 880-6547/2-A
Matrix: Solid
Analysis Batch: 6, 6.

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS QualiUer	z nit	D	f Rec	f Rec% Limits		
Chlori(e			250	245.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-6547/. -A
Matrix: Solid
Analysis Batch: 6, 6.

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD QualiUer	z nit	D	f Rec	f Rec% Limits	RPD	RPD Limit
Chlori(e			250	24R1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 860-170, -2 MS
Matrix: Solid
Analysis Batch: 6, 6.

Client Sample ID: PE05A
Prep Type: Soluble

Analyte	Sample Result	Sample QualiUer	Spike Added	MS Result	MS QualiUer	z nit	D	f Rec	f Rec% Limits		
Chlori(e	18.4		248	2R5.6		mg/Kg		100	90 - 110		

Lab Sample ID: 860-170, -2 MSD
Matrix: Solid
Analysis Batch: 6, 6.

Client Sample ID: PE05A
Prep Type: Soluble

Analyte	Sample Result	Sample QualiUer	Spike Added	MSD Result	MSD QualiUer	z nit	D	f Rec	f Rec% Limits	RPD	RPD Limit
Chlori(e	18.4		248	2RR.6		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC VOA

Prep Batch: 9466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	M03M	
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	M03M	
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	M03M	
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	M03M	
k a 880-94TTFMA	k etNo5 al6n7	Bot6lFh A	Soli5	M03M	
LCS 880-94TTF1-A	L6b Contjol S6mple	Bot6lFh A	Soli5	M03M	
LCSD 880-94TTFr-A	L6b Contjol S6mple Dup	Bot6lFh A	Soli5	M03M	
890-140MA-1-a k S	k 6tjix Spi7e	Bot6lFh A	Soli5	M03M	
890-140MA-1-C k SD	k 6tjix Spi7e Duplic6te	Bot6lFh A	Soli5	M03M	

Prep Batch: 9635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
k a 880-9T3MFMA	k etNo5 al6n7	Bot6lFh A	Soli5	M03M	

Analysis Batch: 9649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	80r 1a	94TT
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	80r 1a	94TT
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	80r 1a	94TT
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	80r 1a	94TT
k a 880-94TTFMA	k etNo5 al6n7	Bot6lFh A	Soli5	80r 1a	94TT
k a 880-9T3MFMA	k etNo5 al6n7	Bot6lFh A	Soli5	80r 1a	9T3M
LCS 880-94TTF1-A	L6b Contjol S6mple	Bot6lFh A	Soli5	80r 1a	94TT
LCSD 880-94TTFr-A	L6b Contjol S6mple Dup	Bot6lFh A	Soli5	80r 1a	94TT
890-140MA-1-a k S	k 6tjix Spi7e	Bot6lFh A	Soli5	80r 1a	94TT
890-140MA-1-C k SD	k 6tjix Spi7e Duplic6te	Bot6lFh A	Soli5	80r 1a	94TT

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	Bot6l aBEX	
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	Bot6l aBEX	
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	Bot6l aBEX	
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	Bot6l aBEX	

GC Semi VOA

Prep Batch: 9484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	801Mh k Pjep	
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	801Mh k Pjep	
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	801Mh k Pjep	
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	801Mh k Pjep	
k a 880-9484F1-A	k etNo5 al6n7	Bot6lFh A	Soli5	801Mh k Pjep	
LCS 880-9484Fr-A	L6b Contjol S6mple	Bot6lFh A	Soli5	801Mh k Pjep	
LCSD 880-9484F3-A	L6b Contjol S6mple Dup	Bot6lFh A	Soli5	801Mh k Pjep	
890-140T-A-1-D k S	k 6tjix Spi7e	Bot6lFh A	Soli5	801Mh k Pjep	
890-140T-A-1-E k SD	k 6tjix Spi7e Duplic6te	Bot6lFh A	Soli5	801Mh k Pjep	

Analysis Batch: 9598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	801Ma h k	9484

QC Association Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

GC Semi VOA (Continued)

Analysis Batch: 9598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	801Ma h k	9484
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	801Ma h k	9484
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	801Ma h k	9484
k a 880-9484F1-A	k etNo5 al6n7	Bot6lFh A	Soli5	801Ma h k	9484
LCS 880-9484Fr -A	L6b Contjol S6mple	Bot6lFh A	Soli5	801Ma h k	9484
LCSD 880-9484F3-A	L6b Contjol S6mple Dup	Bot6lFh A	Soli5	801Ma h k	9484
890-140T-A-1-D k S	k 6tjix Spi7e	Bot6lFh A	Soli5	801Ma h k	9484
890-140T-A-1-E k SD	k 6tjix Spi7e Duplic6te	Bot6lFh A	Soli5	801Ma h k	9484

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Bot6lFh A	Soli5	801Mh k	
890-1402-r	Pd 0MA	Bot6lFh A	Soli5	801Mh k	
890-1402-3	Pd 0Ma	Bot6lFh A	Soli5	801Mh k	
890-1402-4	Pd 0MC	Bot6lFh A	Soli5	801Mh k	

HPLC/IC

Leach Batch: 9560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Soluble	Soli5	DI Le6cN	
k a 880-9MT0F1-A	k etNo5 al6n7	Soluble	Soli5	DI Le6cN	
LCS 880-9MT0Fr -A	L6b Contjol S6mple	Soluble	Soli5	DI Le6cN	
LCSD 880-9MT0F3-A	L6b Contjol S6mple Dup	Soluble	Soli5	DI Le6cN	
880-209MA-1-a k S	k 6tjix Spi7e	Soluble	Soli5	DI Le6cN	
880-209MA-1-C k SD	k 6tjix Spi7e Duplic6te	Soluble	Soli5	DI Le6cN	

Leach Batch: 9564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-r	Pd 0MA	Soluble	Soli5	DI Le6cN	
890-1402-3	Pd 0Ma	Soluble	Soli5	DI Le6cN	
890-1402-4	Pd 0MC	Soluble	Soli5	DI Le6cN	
k a 880-9MT4F1-A	k etNo5 al6n7	Soluble	Soli5	DI Le6cN	
LCS 880-9MT4Fr -A	L6b Contjol S6mple	Soluble	Soli5	DI Le6cN	
LCSD 880-9MT4F3-A	L6b Contjol S6mple Dup	Soluble	Soli5	DI Le6cN	
890-1402-r k S	Pd 0MA	Soluble	Soli5	DI Le6cN	
890-1402-r k SD	Pd 0MA	Soluble	Soli5	DI Le6cN	

Analysis Batch: 9759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-1	Pd 0M	Soluble	Soli5	300.0	9MT0
k a 880-9MT0F1-A	k etNo5 al6n7	Soluble	Soli5	300.0	9MT0
LCS 880-9MT0Fr -A	L6b Contjol S6mple	Soluble	Soli5	300.0	9MT0
LCSD 880-9MT0F3-A	L6b Contjol S6mple Dup	Soluble	Soli5	300.0	9MT0
880-209MA-1-a k S	k 6tjix Spi7e	Soluble	Soli5	300.0	9MT0
880-209MA-1-C k SD	k 6tjix Spi7e Duplic6te	Soluble	Soli5	300.0	9MT0

Analysis Batch: 9793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-r	Pd 0MA	Soluble	Soli5	300.0	9MT4
890-1402-3	Pd 0Ma	Soluble	Soli5	300.0	9MT4

QC Association Summary

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011d

Job ID: 890-1402-1
SDG: 3140r 909.110

HPLC/IC (Continued)

Analysis Batch: 9793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1402-4	Pd 0MC	Soluble	Soli5	300.0	9MT4
k a 880-9MT4F1-A	k etNo5 al6n7	Soluble	Soli5	300.0	9MT4
LCS 880-9MT4fr-A	L6b Contjol S6mple	Soluble	Soli5	300.0	9MT4
LCSD 880-9MT4F3-A	L6b Contjol S6mple Dup	Soluble	Soli5	300.0	9MT4
890-1402-r k S	Pd 0MA	Soluble	Soli5	300.0	9MT4
890-1402-r k SD	Pd 0MA	Soluble	Soli5	300.0	9MT4

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03

Date Collected: 10/03/21 11:40
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/MA	Pre5	K03K			4.97 g	K mX	9477	10/14/p1 1p:43	LX	ENM 6 ID
Total/MA	Analysis	80p1B		1	K mX	K mX	9749	10/19/p1 03:K2	6 R	ENM 6 ID
Total/MA	Analysis	Total BTNE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
Total/MA	Analysis	801K M6		1			9897	10/19/p1 13:pK	AJ	ENM 6 ID
Total/MA	Pre5	801KM6 Pre5			10.03 g	10 mX	9484	10/14/p1 14:4K	D6	ENM 6 ID
Total/MA	Analysis	801KB M6		1			9K98	10/12/p1 14:33	AJ	ENM 6 ID
Soluble	Xeach	DI Xeach			K.01 g	K0 mX	9K70	10/1K/p1 12:31	CA	ENM 6 ID
Soluble	Analysis	300.0		1			92K9	10/19/p1 1p:pp	SC	ENM 6 ID

Client Sample ID: PH03A

Date Collected: 10/03/21 11:42
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/MA	Pre5	K03K			K.01 g	K mX	9477	10/14/p1 1p:43	LX	ENM 6 ID
Total/MA	Analysis	80p1B		1	K mX	K mX	9749	10/19/p1 04:12	6 R	ENM 6 ID
Total/MA	Analysis	Total BTNE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
Total/MA	Analysis	801K M6		1			9897	10/19/p1 13:pK	AJ	ENM 6 ID
Total/MA	Pre5	801KM6 Pre5			10.01 g	10 mX	9484	10/14/p1 14:4K	D6	ENM 6 ID
Total/MA	Analysis	801KB M6		1			9K98	10/12/p1 14:K3	AJ	ENM 6 ID
Soluble	Xeach	DI Xeach			K.0K g	K0 mX	9K74	10/1K/p1 12:32	CA	ENM 6 ID
Soluble	Analysis	300.0		1	0 mX	1.0 mX	9293	10/18/p1 p0:11	SC	ENM 6 ID

Client Sample ID: PH03B

Date Collected: 10/03/21 11:45
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/MA	Pre5	K03K			K.01 g	K mX	9477	10/14/p1 1p:43	LX	ENM 6 ID
Total/MA	Analysis	80p1B		1	K mX	K mX	9749	10/19/p1 07:07	6 R	ENM 6 ID
Total/MA	Analysis	Total BTNE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID
Total/MA	Analysis	801K M6		1			9897	10/19/p1 13:pK	AJ	ENM 6 ID
Total/MA	Pre5	801KM6 Pre5			10.01 g	10 mX	9484	10/14/p1 14:4K	D6	ENM 6 ID
Total/MA	Analysis	801KB M6		1			9K98	10/12/p1 1K:14	AJ	ENM 6 ID
Soluble	Xeach	DI Xeach			4.92 g	K0 mX	9K74	10/1K/p1 12:32	CA	ENM 6 ID
Soluble	Analysis	300.0		1	0 mX	1.0 mX	9293	10/18/p1 p0:p8	SC	ENM 6 ID

Client Sample ID: PH03C

Date Collected: 10/03/21 11:34
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/MA	Pre5	K03K			K.0p g	K mX	9477	10/14/p1 1p:43	LX	ENM 6 ID
Total/MA	Analysis	80p1B		1	K mX	K mX	9749	10/19/p1 07:p2	6 R	ENM 6 ID
Total/MA	Analysis	Total BTNE		1			9900	10/19/p1 13:4p	AJ	ENM 6 ID

Nuro=ins Eencof Carlsba,

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1402-1
SDG: 3140p909.110

Client Sample ID: PH03C
Date Collected: 10/03/21 11:34
Date Received: 10/12/21 14:04

Lab Sample ID: 890-1405-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/MA	Analysis	801K M6		1			9897	10/19/p1 13:pK	AJ	ENM 6 ID
Total/MA	Pre5	801KM6 Pre5			10.0K g	10 mX	9484	10/14/p1 14:4K	D6	ENM 6 ID
Total/MA	Analysis	801KB M6		1			9K98	10/12/p1 1K:34	AJ	ENM 6 ID
Soluble	Xeach	DI Xeach			4.92 g	K0 mX	9K74	10/1K/p1 12:32	CA	ENM 6 ID
Soluble	Analysis	300.0		1	0 mX	1.0 mX	9293	10/18/p1 p0:34	SC	ENM 6 ID

Laboratory References:

ENM 6 ID d Nuro÷ins Eencof 6 i, lan, f 1p11 W. Flori, a Avef 6 i, lan, f TE 29201f TNX (43p)204-K440

Nuro÷ins Eencof Carlsba,

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1402-1
Project/Site: Fez Fee 011H SDG: 3140s909.110

Laboratory: Eurofins Xenco, Midland

Unlehh otwerd ihe note, ayll ynylf teh vor twih lyborytorf d ere couere, Tn, er eycwyccre, itytion/certivicytion belod .

Authority	Program	Identification Number	Expiration Date
xeNyh	EL7AP	x104204400-s1-ss	06-30-ss

xwe vollod ing ynylf teh yre inclT, e, in twih reportabTt twe lyborytorf ih not certivie, bf twe gouerning yTtworitf . xwih liht myf inclT, e ynylf teh vor d wicw twe ygencf , oeh not ower certivicytion .

Anylf hih Metwo,	Prep Metwo,	MytriN	Anylf te
8015 EM		Soli,	xotyl xPH
xotyl BxLX		Soli,	xotyl BxLX

L Trovinh XencoaCyrlhby,

Method Summary

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 0116

Job ID: 890-1402-1
SDG: 3140r 909.110

Method	Method Description	Protocol	Laboratory
80r 1V	aolCtile g jmCnic Cop uodns( )GCX	SW84B	ENM T ID
LotCl VLNE	LotCl VLNE CCIcdICtion	LA5 Sg P	ENM T ID
801R MT	Die(el , Cnme g jmCnic( )D, g X)GCX	SW84B	ENM T ID
801RV MT	Die(el , Cnme g jmCnic( )D, g X)GCX	SW84B	ENM T ID
300.0	Anion(hlon Cyjop CtomjCuyx	T CAWW	ENM T ID
R03R	Clo(es Sx(tep Pdjme Cns LjCu	SW84B	ENM T ID
801RMT Pjeu	T icjoe=tjCction	SW84B	ENM T ID
DI 5eCcy	DeioniHes WCtej 5eCcyinmPjocesdje	ASLT	ENM T ID

Protocol References:

ASLT " ASLT IntejnCtionCl

T CAWW " fT etyos(zoj Cyep icCl AnCtx(i(g 7WCtej Ans WC(te(fhNPA-B00F4-29-0r 0hT Cjcy 1983 Ans Sdb(eqdent , evi(ion(.

SW84B " fLe(t T etyos(zoj NvCldCtinmSolis WC(tehPyx(icCIFCyep icCl T etyos(fhLyijs NsitionhMovep bej 198B Ans It(UusCte(.

LA5 Sg P " Le(tAp ejicO5CbojCtojie(hStCnsCjs g uejCtinmPjocesdje

Laboratory References:

ENM T ID " Ndjo7n(EencohT islCnsh1r 11 W. zlojisOAvehT islCnshLE 29201hLN5)43r X204-R440

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1405-1
SDG: 31402909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1405-1	PH0d	Soli7	10/0d/21 11:40	10/12/21 14:04	1
890-1405-2	PH0dA	Soli7	10/0d/21 11:42	10/12/21 14:04	2
890-1405-3	PH0dB	Soli7	10/0d/21 11:45	10/12/21 14:04	3
890-1405-4	PH0dC	Soli7	10/0d/21 11:d4	10/12/21 14:04	4

Chain of Custody

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: _____

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT — Temp Blank: (Yes) No — Wet Ice: (Yes) No

Temperature (°C):	2.4	Thermometer ID	IR-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
PH05	S	10/5/2021	1140	1'	1			
PH05A	S	10/5/2021	1142	2'	1			
PH05B	S	10/5/2021	1147	3'	1			
PH05C	S	10/5/2021	1154	4'	1			

890-1407 Chain of Custody

Work Order Notes

TAT starts the day recevied 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

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			10-12-21 1600	2		10.12.21 1404
3				4		
5				6		

Revised Date101419 Rev 2019.1

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: 890-459 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 #: 890-1407-1
Address: 1211 W Florida Ave	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH05 (890-1407-1)	10/5/21	11 40 Mountain		Solid			X	X	X	X	X	1	
PH05A (890-1407-2)	10/5/21	11 42 Mountain		Solid			X	X	X	X	X	1	
PH05B (890-1407-3)	10/5/21	11 47 Mountain		Solid			X	X	X	X	X	1	
PH05C (890-1407-4)	10/5/21	11 54 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: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Clue	10.12.21				
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: 1.6/1.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 3140T909.110

Login Number: 1402
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
h' e coolersd cudtoya de, lf ipvredentf id int, ct.	hrue	
S, mvle cudtoya de, ldf ipvredentf , re int, ct.	hrue	
h' e cooler or d, mvled yo not , vve, r to ' , we been comvromidey or t, mverey Oit' .	hrue	
S, mvled Oere receiwey on ice.	hrue	
Cooler hemver, ture id , ccevt, ble.	hrue	
Cooler hemver, ture id recoryey.	hrue	
Ck C id vredent.	hrue	
Ck C id pilley out in ing , ny leFible.	hrue	
Ck C id pilley out Oit' , ll vertinent inporm, tion.	hrue	
Id t' e ?iely S, mvlersd n, me vredent on Ck CH	hrue	
h' ere , re no yidcrev, ncied betOeen t' e cont, inerd receiwey , ny t' e Ck C.	hrue	
S, mvled , re receiwey Oit' in (olyinF hime xe) cluyinF tedtd Oit' immeyi, te (hd/	hrue	
S, mvle cont, inerd ' , we leFible l, beld.	hrue	
Cont, inerd , re not brogen or le, ginF.	hrue	
S, mvle collection y, teVimed , re vrowiyey.	hrue	
Avvrovri, te d, mvle cont, inerd , re udey.	hrue	
S, mvle bottled , re comvletela pilley.	hrue	
S, mvle Prederw, tion qeripiey.	N\A	
h' ere id dupicient wol. por , ll reMuedtey , n, ladedf incl. , na reMuedtey z S\z SDd	hrue	
Cont, inerd reMuirinF <ero ' e, ydv, ce ' , we no ' e, ydv, ce or bubble id 6" mm x1\47.	N\A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1402-1
SDG Number: 3140T909.110

Login Number: 1402
List Number: 7
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/71 17:12 PM

Question	Answer	Comment
h' e coolersd cudtoya de, lf ipvredentf id int, ct.	N\A	
S, mvle cudtoya de, ldf ipvredentf , re int, ct.	N\A	
h' e cooler or d, mvled yo not , vve, r to ' , we been comvromidey or t, mverey Oit' .	hrue	
S, mvled Oere receiwey on ice.	hrue	
Cooler hemver, ture id , ccevt, ble.	hrue	
Cooler hemver, ture id recoryey.	hrue	1." \l.2
Ck C id vredent.	hrue	
Ck C id pilley out in ing , ny leFible.	hrue	
Ck C id pilley out Oit' , ll vertinent inporm, tion.	hrue	
Id t' e ?iely S, mvlersd n, me vredent on Ck CH	hrue	
h' ere , re no yidcrev, ncied betOeen t' e cont, inerd receiwey , ny t' e Ck C.	hrue	
S, mvled , re receiwey Oit' in (olyinF hime xe) cluyinF tedtd Oit' immeyi, te (hd/	hrue	
S, mvle cont, inerd ' , we leFible l, beld.	hrue	
Cont, inerd , re not brogen or le, ginF.	hrue	
S, mvle collection y, teVfimed , re vrowiyey.	hrue	
Avvrovri, te d, mvle cont, inerd , re udey.	hrue	
S, mvle bottled , re comvletela pilley.	hrue	
S, mvle Prederw, tion qeripiey.	hrue	
h' ere id duppicient wol. por , ll reMuedtey , n, ladedf incl. , na reMuedtey z S\z SDd	hrue	
Cont, inerd reMuirinF <ero ' e, ydv, ce ' , we no ' e, ydv, ce or bubble id 6" mm x1\4-7.	N\A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1408-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/19/2021 1:42:58 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: Fez Fee 011H

Laboratory Job ID: 890-1408-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1408-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.
P6orectjSite: / eF / ee 011z

Job ID: 890-1408-1
SDH: G1403909.110

Job ID: 890-1408-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1408-1

Receipt
2Te hsa mleh p e6e 6eceiwev on 10j13j3031 3:04 Pd . Unlehh otTe6p ihe notev belop MtTe hsa mleh s66wev in , oov convitionMsnvMp Te6e 6egqi6evMm6ome6u m6ehe6wev snv on ice. 2Te tea me6stq6e oytTe coole6st 6eceimt tia e p sh 3.4fC

GC VOA
d etTov 8031° : 2Te a st6Bhmixe j a st6Bhmixe vqmlicste kd Sjd SD(6ecowe6eh yo6m6ems6stion bstcT 880-94)) snv snsluticsl bstcT 880-9) 49 p e6e oqthive cont6ol lia ith. Ssa mle a st6Binte6ye6ence snvjo6non-Toa o, eneitu s6e hqhmectev becsqhe tTe shhocistev lsbo6sto6u cont6ol hsa mle kLCS(6ecowe6u p sh p itTin sccemtsnce lia ith.

d etTov 8031° : Sq66o, ste 6ecowe6u yo6tTe yollop in, hsa mleh p e6e oqthive cont6ol lia ith: Pz 0) k890-1408-1(MPz 0) A k890-1408-3(MPz 0) ° k890-1408-G(Mk890-1405-A-1-D(snv k890-1405-A-1-° d S(. Ewivence oya st6Binte6ye6enceh ih not obwioqh.

No svvitionsl snsluticsl o6gqslitu ihhqeh p e6e notevMotTe6tTsn tTohe vehc6bev sbowe o6in tTe Deyinitionhj Hlohhs6u ms, e.

GC Semi VOA
d etTov 8015d OD_Nd : 2Te RPD oytTe lsbo6sto6u cont6ol hsa mle kLCS(snv lsbo6sto6u cont6ol hsa mle vqmlicste kLCSD(yo6m6ems6stion bstcT 880-9484 snv snsluticsl bstcT 880-9598 6ecowe6ev oqthive cont6ol lia ith yo6tTe yollop in, snsluteh: Hsholine Rsn, e O6 snich kHRO(-C) -C10

No svvitionsl snsluticsl o6gqslitu ihhqeh p e6e notevMotTe6tTsn tTohe vehc6bev sbowe o6in tTe Deyinitionhj Hlohhs6u ms, e.

HPLC/IC
No svvitionsl snsluticsl o6gqslitu ihhqeh p e6e notevMotTe6tTsn tTohe vehc6bev sbowe o6in tTe Deyinitionhj Hlohhs6u ms, e.

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909c110

Client Sample ID: 6P0H

Date Collected: 10/05/21 12:02
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1408-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Hi eFi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1
ToQi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1
Erhy Qi eFi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1
< -XyCei & p-XyCei	B0d00G98	P	0d00G98		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1
o-XyCei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1
XyCei s, TomaC	B0d00G98	P	0d00G98		< mjg m		10j14j31 13:4G	10j19j31 0K:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15+*	*S17*	*03 - 183*	*13/14/+1 1+248*	*13/15/+1 39240*	*1*
1:4-, Fluorobenzene (Surr)	*11i*		*03 - 183*	*13/14/+1 1+248*	*13/15/+1 39240*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCHTEX	B0d00G98	P	0d00G98		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCTSz	B49c9	P	49c9		< mjg m			10j19j31 1G3R	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
. asoQei Oaemi (2maelAs). O(*-6 K-6 10	B49c9	P 71	49c9		< mjg m		10j14j31 14:4R	10j15j31 1RRR	1
Dli si COaemi (2maelAs)(vi 2 6 10-6 38*	B49c9	P	49c9		< mjg m		10j14j31 14:4R	10j15j31 1RRR	1
(ICOaemi (2maelAs)(vi 26 38-6 GK*	B49c9	P	49c9		< mjg m		10j14j31 14:4R	10j15j31 1RRR	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*5+*		*03 - 183*	*13/14/+1 142i*	*13/10/+1 1i 2i*	*1*
o-Terphenyl	*56*		*03 - 183*	*13/14/+1 142i*	*13/10/+1 1i 2i*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Chloride	**140**		Rc01		< mjg m			10j18j31 30:G9	1

Client Sample ID: 6P0HA

Date Collected: 10/05/21 12:0H
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1408-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Hi eFi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 05:05	1
ToQi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 05:05	1
Erhy Qi eFi ei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 05:05	1
< -XyCei & p-XyCei	B0d00G98	P	0d00G98		< mjg m		10j14j31 13:4G	10j19j31 05:05	1
o-XyCei	B0d00199	P	0d00199		< mjg m		10j14j31 13:4G	10j19j31 05:05	1
XyCei s, TomaC	B0d00G98	P	0d00G98		< mjg m		10j14j31 13:4G	10j19j31 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*03 - 183*	*13/14/+1 1+248*	*13/15/+1 30230*	*1*

Eu2ofles Xi eAo, 6 a2Gbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909d110

Client Sample ID: 6P0HA

Date Collected: 10/05/21 12:0H
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1408-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, fluorobenzene (Surr)	*186*	*S17*	*03 - 183*	*13/14/+1 1+248*	*13/15/+1 30230*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCHTEX	B0d00G98	P	0d00G98		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCTSz	B49c8	P	49c8		< mjg m			10j19j31 1G3R	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
. asoCei Oaemi (2maelAs). O(*-6 K-6 10	B49c8	P 71	49c8		< mjg m		10j14j31 14:4R	10j15j31 1K:1R	1
Dli si COaemi (2maelAs)(vi 2 6 10-6 38*	B49c8	P	49c8		< mjg m		10j14j31 14:4R	10j15j31 1K:1R	1
(ICOaemi (2maelAs)(vi 26 38-6 GK*	B49c8	P	49c8		< mjg m		10j14j31 14:4R	10j15j31 1K:1R	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*66*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 1921i*	*1*
o-Terphenyl	*50*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 1921i*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Chloride	**859**		4c9R		< mjg m			10j18j31 30:4R	1

Client Sample ID: 6P0HB

Date Collected: 10/05/21 12:09
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1408-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Hi eFi ei	B0d00198	P	0d00198		< mjg m		10j14j31 13:4G	10j19j31 05:38	1
ToCi ei	B0d00198	P	0d00198		< mjg m		10j14j31 13:4G	10j19j31 05:38	1
ErhyCi eFi ei	B0d00198	P	0d00198		< mjg m		10j14j31 13:4G	10j19j31 05:38	1
< -XyCei & p-XyCei	B0d00G9K	P	0d00G9K		< mjg m		10j14j31 13:4G	10j19j31 05:38	1
o-XyCei	B0d00198	P	0d00198		< mjg m		10j14j31 13:4G	10j19j31 05:38	1
XyCei s, TomaC	B0d00G9K	P	0d00G9K		< mjg m		10j14j31 13:4G	10j19j31 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*00*		*03 - 183*	*13/14/+1 1+248*	*13/15/+1 302+6*	*1*
1:4-, fluorobenzene (Surr)	*95*	*S1-*	*03 - 183*	*13/14/+1 1+248*	*13/15/+1 302+6*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCHTEX	B0d00G9K	P	0d00G9K		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
TomaCTSz	B49c9	P	49c9		< mjg m			10j19j31 1G3R	1

Eu2ofles Xi eAo, 6 a2Sbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909c110

Client Sample ID: 6P0HB
Date Collected: 10/05/21 12:09
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1408-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
. asoCei Oaemi (2maelAs). O(*-6 K-6 10	B49c9	P 71	49c9		< mjg m		10j14j31 14:4R	10j15j31 1K:RK	1
Dli si COaemi (2maelAs)(vi 2 6 10-6 38*	B49c9	P	49c9		< mjg m		10j14j31 14:4R	10j15j31 1K:RK	1
(lCOaemi (2maelAs)(vi 26 38-6 GK*	B49c9	P	49c9		< mjg m		10j14j31 14:4R	10j15j31 1K:RK	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*13+*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 192 9*	*1*
o-Terphenyl	*114*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 192 9*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Chloride	**7480**		R0c4		< mjg m			10j18j31 31:03	10

Client Sample ID: 6P0HC
Date Collected: 10/05/21 12:14
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1408-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Hi eFi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 05:48	1
ToCi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 05:48	1
EnhyCi eFi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 05:48	1
< -XyCei & p-XyCei	B0c00G99	P	0c00G99		< mjg m		10j14j31 13:4G	10j19j31 05:48	1
o-XyCei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 05:48	1
XyCei s, ToraC	B0c00G99	P	0c00G99		< mjg m		10j14j31 13:4G	10j19j31 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*6+*		*03 - 183*	*13/14/+1 1+248*	*13/15/+1 30246*	*1*
1:4-, fluorobenzene (Surr)	*118*		*03 - 183*	*13/14/+1 1+248*	*13/15/+1 30246*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
ToraCHTEX	B0c00G99	P	0c00G99		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
ToraCTSz	BR0c0	P	R0c0		< mjg m			10j19j31 1G3R	1

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

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
. asoCei Oaemi (2maelAs). O(*-6 K-6 10	BR0c0	P 71	R0c0		< mjg m		10j14j31 14:4R	10j15j31 15:15	1
Dli si COaemi (2maelAs)(vi 2 6 10-6 38*	BR0c0	P	R0c0		< mjg m		10j14j31 14:4R	10j15j31 15:15	1
(lCOaemi (2maelAs)(vi 26 38-6 GK*	BR0c0	P	R0c0		< mjg m		10j14j31 14:4R	10j15j31 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 10210*	*1*
o-Terphenyl	*59*		*03 - 183*	*13/14/+1 1424i*	*13/10/+1 10210*	*1*

Eu2ofles Xi eAo, 6 a2Gbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909d110

Client Sample ID: 6 P0HC
Date Collected: 10/05/21 12:14
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1408-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	6repared	Analyzed	Dil Fac
Chloride	3110		3Rc0		< mjg m			10j18j31 31:05	R

Surrogate Summary

2Ct en t WS PWU leAc
Sroji An/Wni : Fi z Fi i 011H

Job ID: 890-1408-1
WD. : G1403909c110

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)								
890-140+-U-1-6 MW	MBmla Wklpi	178 Wl5	38+ Wl5								
890-140+-U-1-2 MWD	MBmla Wklpi Dkx0ABni	84	10+								
890-1408-1	SH0u	193 Wl5	11+								
890-1408-3	SH0uU	111	1G8 Wl5								
890-1408-G	SH0u6	77	u9 Wl-								
890-1408-4	SH0u2	83	11G								
L2W880-94uu/1-U	LBb 2oenroOABmxC	91	103								
L2WD 880-94uu/3-U	LBb 2oenroOABmxC Dkx	88	103								
M6 880-94uu/+-U	Mi rhod 6Bep	99	104								
M6 880-9uG+/+-U	Mi rhod 6Bep	98	10G								

Surrogate Legend

6F6 = 4-6romofCorobi ezi ei (Wkrr)
DF6Z = 1,4-DlfCorobi ezi ei (Wkrr)

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)								
890-140u-U-1-D MW	MBmla Wklpi	97	93								
890-140u-U-1-O MWD	MBmla Wklpi Dkx0ABni	94	90								
890-1408-1	SH0u	93	98								
890-1408-3	SH0uU	88	97								
890-1408-G	SH0u6	103	114								
890-1408-4	SH0u2	88	9u								
L2W880-9484/3-U	LBb 2oenroOABmxC	83	91								
L2WD 880-9484/G-U	LBb 2oenroOABmxC Dkx	9G	91								
M6 880-9484/1-U	Mi rhod 6Bep	9u	10+								

Surrogate Legend

12T = 1-2hCrooAnBei
TySH = o-yi rxhi eEC

Okrofles Xi eAo, 2BrGbBd

QC Sample Results

6 Œ en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909cl10

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9466/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9466

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1
5oCi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1
urEhCi eFi ei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1
< -yhCei X &-yhCei	B0c00400	P	0c00400		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1
o-yhCei	B0c00300	P	0c00300		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1
yhCei ps5on, C	B0c00400	P	0c00400		< mjg m		10j14j31 13:4G	10j19j31 00:4K	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*	*7+3743l7 78/40*	*7+3713l7 ++/42*	*7*
794-: ,fluorobenzene (Surr)	*7+4*		*5+ - 70+*	*7+3743l7 78/40*	*7+3713l7 ++/42*	*7*

Lab Sample ID: LCS 880-9466/1-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hi eFi ei			0c100	0c0803a		< mjg m		80	R0 - 1G0		
5oCi ei			0c100	0c09483		< mjg m		9K	R0 - 1G0		
urEhCi eFi ei			0c100	0c098K9		< mjg m		99	R0 - 1G0		
< -yhCei X &-yhCei			0c300	0c18Ga		< mjg m		93	R0 - 1G0		
o-yhCei			0c100	0c10aG		< mjg m		10a	R0 - 1G0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*17*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: LCSD 880-9466/2-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hi eFi ei			0c100	0c1114		< mjg m		111	R0 - 1G0	G3	GK
5oCi ei			0c100	0c114G		< mjg m		114	R0 - 1G0	19	GK
urEhCi eFi ei			0c100	0c11K1		< mjg m		11K	R0 - 1G0	1K	GK
< -yhCei X &-yhCei			0c300	0c330G		< mjg m		110	R0 - 1G0	18	GK
o-yhCei			0c100	0c11RG		< mjg m		11R	R0 - 1G0	10	GK

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*DD*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*

Lab Sample ID: 890-1405-A-1-B MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hi eFi ei	B0c00300	P / 1 / 3	0c100	0c10Ka		< mjg m		10K	R0 - 1G0		
5oCi ei	B0c00300	P / 1	0c100	0c0RKG0		< mjg m		RK	R0 - 1G0		

uT2oOep y i eAos6 , 2Cb, (

QC Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909d110

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

Lab Sample ID: 890-1405-A-1-B MS
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
urEhCi eFi ei	B0d00300	P / 1 / 3	0d100	0d0G9K8	/ 1	< mjg m		G9	R0 - 1G0
< -yhCei X &-yhCei	B0d00400	P / 1 / 3	0d300	0d0KG1K	/ 1	< mjg m		3R	R0 - 1G0
o-yhCei	B0d00300	P / 1 / 3	0d100	0d008Ga9	/ 1	< mjg m		8	R0 - 1G0

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*75D*	*S7i*	*5+ - 70+*
794-: ,fluorobenzene (Surr)	*8D2*	*S7i*	*5+ - 70+*

Lab Sample ID: 890-1405-A-1-C MSD
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hi eFi ei	B0d00300	P / 1 / 3	0d101	0d009443	/ 1 / 3	< mjg m		9	R0 - 1G0	1aR	GK
5oCi ei	B0d00300	P / 1	0d101	0d0KaaR	/ 1	< mjg m		Ka	R0 - 1G0	38	GK
urEhCi eFi ei	B0d00300	P / 1 / 3	0d101	0d0aa8K	/ 1 / 3	< mjg m		aa	R0 - 1G0	K1	GK
< -yhCei X &-yhCei	B0d00400	P / 1 / 3	0d303	0d08KKR	/ 1 / 3	< mjg m		43	R0 - 1G0	4R	GK
o-yhCei	B0d00300	P / 1 / 3	0d101	0d0R180	/ 3	< mjg m		R1	R0 - 1G0	1K8	GK

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*D4*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*7+2*		*5+ - 70+*

Lab Sample ID: MB 880-9635/5-A
Matrix: Solid
Analysis Batch: 9649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9635

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0d00300	P	0d00300	< mjg m		10j18j31 09:40	10j18j31 1G13	1
5oCi ei	B0d00300	P	0d00300	< mjg m		10j18j31 09:40	10j18j31 1G13	1
urEhCi eFi ei	B0d00300	P	0d00300	< mjg m		10j18j31 09:40	10j18j31 1G13	1
< -yhCei X &-yhCei	B0d00400	P	0d00400	< mjg m		10j18j31 09:40	10j18j31 1G13	1
o-yhCei	B0d00300	P	0d00300	< mjg m		10j18j31 09:40	10j18j31 1G13	1
yhCei ps5on, C	B0d00400	P	0d00400	< mjg m		10j18j31 09:40	10j18j31 1G13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1D*		*5+ - 70+*	*7+37D387 +1/4+*	*7+37D387 70/78*	*7*
794-: ,fluorobenzene (Surr)	*7+0*		*5+ - 70+*	*7+37D387 +1/4+*	*7+37D387 70/78*	*7*

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

Lab Sample ID: MB 880-9484/1-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9484

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
. , poCei) , emi * 2m elAp 7.) * v-6 a-6 10	BK0c0	P	K0c0	< mjg m		10j14j31 14:4K	10j1Rj31 11:G1	1

uT2oCep y i eAos6 , 2Cb, (

QC Sample Results

6 Œ en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909d110

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

Lab Sample ID: MB 880-9484/1-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9484

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Dli pi O) , emi * 2m elAp 7* fi 2 6 10-6 38v	BK0d0	P	K0d0		< mjg m		10j14j31 14:4K	10j1Rj31 11:G1	1
* IO) , emi * 2m elAp 7* fi 26 38-6 Gav	BK0d0	P	K0d0		< mjg m		10j14j31 14:4K	10j1Rj31 11:G1	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*1T*		*5+ - 70+*	*7+3743l7 74/42*	*7+3753l7 77/07*	*7*
o-peryhen6l	*7+2*		*5+ - 70+*	*7+3743l7 74/42*	*7+3753l7 77/07*	*7*

Lab Sample ID: LCS 880-9484/2-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9484

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
. , poQei) , emi * 2m elAp 7.) * v-6 a-6 10			1000	R80d0		< mjg m		R8	R0 - 1G0		
Dli pi O) , emi * 2m elAp 7* fi 2 6 10-6 38v			1000	880d0		< mjg m		88	R0 - 1G0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*D8*		*5+ - 70+*
o-peryhen6l	*17*		*5+ - 70+*

Lab Sample ID: LCSD 880-9484/3-A
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. , poQei) , emi * 2m elAp 7.) * v-6 a-6 10			1000	99Rc9	d1	< mjg m		100	R0 - 1G0	3K	30
Dli pi O) , emi * 2m elAp 7* fi 2 6 10-6 38v			1000	8R8c9		< mjg m		88	R0 - 1G0	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*10*		*5+ - 70+*
o-peryhen6l	*17*		*5+ - 70+*

Lab Sample ID: 890-1406-A-1-D MS
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
. , poQei) , emi * 2m elAp 7.) * v-6 a-6 10	B49c9	P d1	99R	9G9ca		< mjg m		90	R0 - 1G0		
Dli pi O) , emi * 2m elAp 7* fi 2 6 10-6 38v	B49c9	P	99R	894dR		< mjg m		90	R0 - 1G0		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-Chlorooctane	*15*		*5+ - 70+*
o-peryhen6l	*18*		*5+ - 70+*

uT2oQep y i eAos6 , 2Qb, (

QC Sample Results

6 Œ en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1408-1
WD. : G1403909cl10

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

Lab Sample ID: 890-1406-A-1-E MSD
Matrix: Solid
Analysis Batch: 9598

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. , poŒei) , emi * 2m elAp 7.) * v-6 a-6 10	B49c9	P d1	1000	9R4c1		< mjg m		9G	R0 - 1G0	4	30
Dli pi C) , emi * 2m elAp 7* f i 2 6 10-6 38v	B49c9	P	1000	880c8		< mjg m		88	R0 - 1G0	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-Chlorooctane	*14*		*5+ - 70+*
o-peryhen6l	*1+*		*5+ - 70+*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9564/1-A
Matrix: Solid
Analysis Batch: 9793

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6 EŒ2(i	BKc00	P	Kc00		< mjg m			10j18j31 19:K4	1

Lab Sample ID: LCS 880-9564/2-A
Matrix: Solid
Analysis Batch: 9793

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6 EŒ2(i			3K0	34Kc3		< mjg m		98	90 - 110		

Lab Sample ID: LCSD 880-9564/3-A
Matrix: Solid
Analysis Batch: 9793

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
6 EŒ2(i			3K0	34ac1		< mjg m		98	90 - 110	0	30

Lab Sample ID: 890-1407-A-2-D MS
Matrix: Solid
Analysis Batch: 9793

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
6 EŒ2(i	18c4		348	3aKdR		< mjg m		100	90 - 110		

Lab Sample ID: 890-1407-A-2-E MSD
Matrix: Solid
Analysis Batch: 9793

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
6 EŒ2(i	18c4		348	3aadR		< mjg m		100	90 - 110	0	30

u T2oŒep y i eAos6 , 2Œb, (

QC Association Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1408-1
WD. : G1403909d110

GC VOA

Prep Batch: 9466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0tl	50G5	
890-1408-3	SH0MU	Bor60h U	Wb0tl	50G5	
890-1408-G	SH0Ma	Bor60h U	Wb0tl	50G5	
890-1408-4	SH0M2	Bor60h U	Wb0tl	50G5	
k a 880-94MM5-U	k i nTod a0eN	Bor60h U	Wb0tl	50G5	
72W880-94MM1-U	76b 2 oerroOW6L m0	Bor60h U	Wb0tl	50G5	
72WD 880-94MM3-U	76b 2 oerroOW6L m0 Dpm	Bor60h U	Wb0tl	50G5	
890-1405-U-1-a k W	k 6rnlu WrnN	Bor60h U	Wb0tl	50G5	
890-1405-U-1-2 k WD	k 6rnlu WrnN DpmDA6ri	Bor60h U	Wb0tl	50G5	

Prep Batch: 9635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
k a 880-9MG5/5-U	k i nTod a0eN	Bor60h U	Wb0tl	50G5	

Analysis Batch: 9649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0tl	8031a	94MM
890-1408-3	SH0MU	Bor60h U	Wb0tl	8031a	94MM
890-1408-G	SH0Ma	Bor60h U	Wb0tl	8031a	94MM
890-1408-4	SH0M2	Bor60h U	Wb0tl	8031a	94MM
k a 880-94MM5-U	k i nTod a0eN	Bor60h U	Wb0tl	8031a	94MM
k a 880-9MG5/5-U	k i nTod a0eN	Bor60h U	Wb0tl	8031a	9MG5
72W880-94MM1-U	76b 2 oerroOW6L m0	Bor60h U	Wb0tl	8031a	94MM
72WD 880-94MM3-U	76b 2 oerroOW6L m0 Dpm	Bor60h U	Wb0tl	8031a	94MM
890-1405-U-1-a k W	k 6rnlu WrnN	Bor60h U	Wb0tl	8031a	94MM
890-1405-U-1-2 k WD	k 6rnlu WrnN DpmDA6ri	Bor60h U	Wb0tl	8031a	94MM

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0tl	Bor6CaBx E	
890-1408-3	SH0MU	Bor60h U	Wb0tl	Bor6CaBx E	
890-1408-G	SH0Ma	Bor60h U	Wb0tl	Bor6CaBx E	
890-1408-4	SH0M2	Bor60h U	Wb0tl	Bor6CaBx E	

GC Semi VOA

Prep Batch: 9484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0tl	8015hk Sri m	
890-1408-3	SH0MU	Bor60h U	Wb0tl	8015hk Sri m	
890-1408-G	SH0Ma	Bor60h U	Wb0tl	8015hk Sri m	
890-1408-4	SH0M2	Bor60h U	Wb0tl	8015hk Sri m	
k a 880-9484/1-U	k i nTod a0eN	Bor60h U	Wb0tl	8015hk Sri m	
72W880-9484/3-U	76b 2 oerroOW6L m0	Bor60h U	Wb0tl	8015hk Sri m	
72WD 880-9484/G-U	76b 2 oerroOW6L m0 Dpm	Bor60h U	Wb0tl	8015hk Sri m	
890-140M-U-1-D k W	k 6rnlu WrnN	Bor60h U	Wb0tl	8015hk Sri m	
890-140M-U-1-x k WD	k 6rnlu WrnN DpmDA6ri	Bor60h U	Wb0tl	8015hk Sri m	

Analysis Batch: 9598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0tl	8015ahk	9484

xproXef Ei eAos26rCb6d

QC Association Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1408-1
WD. : G1403909d110

GC Semi VOA (Continued)

Analysis Batch: 9598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-3	SH0MU	Bor60h U	Wb0Cl	8015a hk	9484
890-1408-G	SH0Ma	Bor60h U	Wb0Cl	8015a hk	9484
890-1408-4	SH0M2	Bor60h U	Wb0Cl	8015a hk	9484
k a 880-9484/1-U	k i nTod a0GeN	Bor60h U	Wb0Cl	8015a hk	9484
72W880-9484/3-U	76b 2 oenroOW6L m0C	Bor60h U	Wb0Cl	8015a hk	9484
72WD 880-9484/G-U	76b 2 oenroOW6L m0C Dpm	Bor60h U	Wb0Cl	8015a hk	9484
890-140M-U-1-D k W	k 6mlu WmN	Bor60h U	Wb0Cl	8015a hk	9484
890-140M-U-1-x k WD	k 6mlu WmN DpmDA6ri	Bor60h U	Wb0Cl	8015a hk	9484

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	Bor60h U	Wb0Cl	8015 hk	
890-1408-3	SH0MU	Bor60h U	Wb0Cl	8015 hk	
890-1408-G	SH0Ma	Bor60h U	Wb0Cl	8015 hk	
890-1408-4	SH0M2	Bor60h U	Wb0Cl	8015 hk	

HPLC/IC

Leach Batch: 9564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	WbQbC	Wb0Cl	DI 7i 6AT	
890-1408-3	SH0MU	WbQbC	Wb0Cl	DI 7i 6AT	
890-1408-G	SH0Ma	WbQbC	Wb0Cl	DI 7i 6AT	
890-1408-4	SH0M2	WbQbC	Wb0Cl	DI 7i 6AT	
k a 880-95M4/1-U	k i nTod a0GeN	WbQbC	Wb0Cl	DI 7i 6AT	
72W880-95M4/3-U	76b 2 oenroOW6L m0C	WbQbC	Wb0Cl	DI 7i 6AT	
72WD 880-95M4/G-U	76b 2 oenroOW6L m0C Dpm	WbQbC	Wb0Cl	DI 7i 6AT	
890-140, -U-3-D k W	k 6mlu WmN	WbQbC	Wb0Cl	DI 7i 6AT	
890-140, -U-3-x k WD	k 6mlu WmN DpmDA6ri	WbQbC	Wb0Cl	DI 7i 6AT	

Analysis Batch: 9793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1408-1	SH0M	WbQbC	Wb0Cl	G00c0	95M4
890-1408-3	SH0MU	WbQbC	Wb0Cl	G00c0	95M4
890-1408-G	SH0Ma	WbQbC	Wb0Cl	G00c0	95M4
890-1408-4	SH0M2	WbQbC	Wb0Cl	G00c0	95M4
k a 880-95M4/1-U	k i nTod a0GeN	WbQbC	Wb0Cl	G00c0	95M4
72W880-95M4/3-U	76b 2 oenroOW6L m0C	WbQbC	Wb0Cl	G00c0	95M4
72WD 880-95M4/G-U	76b 2 oenroOW6L m0C Dpm	WbQbC	Wb0Cl	G00c0	95M4
890-140, -U-3-D k W	k 6mlu WmN	WbQbC	Wb0Cl	G00c0	95M4
890-140, -U-3-x k WD	k 6mlu WmN DpmDA6ri	WbQbC	Wb0Cl	G00c0	95M4

Lab Chronicle

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1408-1
SDH: G1403909.110

Client Sample ID: PH03
Date Collectex: 10d0/ d21 12:02
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1408-1
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.0Ga	5 g L	9466	10j14j31 13:4G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9649	10j19j31 06:4B	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			9896	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.03 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j1Bj31 15:55	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.99 a	50 g L	9564	10j15j31 1B:GB	CA	XEN MID
Soluble	AnTlnyiy	G00.0		1	0 g L	1.0 g L	9B9G	10j18j31 30:G9	SC	XEN MID

Client Sample ID: PH03A
Date Collectex: 10d0/ d21 12:03
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1408-2
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.03 a	5 g L	9466	10j14j31 13:4G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9649	10j19j31 0B:0B	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			9896	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.05 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j1Bj31 16:15	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.05 a	50 g L	9564	10j15j31 1B:GB	CA	XEN MID
Soluble	AnTlnyiy	G00.0		1	0 g L	1.0 g L	9B9G	10j18j31 30:45	SC	XEN MID

Client Sample ID: PH03B
Date Collectex: 10d0/ d21 12:09
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1408-7
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.05 a	5 g L	9466	10j14j31 13:4G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9649	10j19j31 0B:38	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			9896	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.03 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j1Bj31 16:56	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.96 a	50 g L	9564	10j15j31 1B:GB	CA	XEN MID
Soluble	AnTlnyiy	G00.0		10			9B9G	10j18j31 31:03	SC	XEN MID

Client Sample ID: PH03C
Date Collectex: 10d0/ d21 12:14
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1408-4
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.01 a	5 g L	9466	10j14j31 13:4G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9649	10j19j31 0B:48	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID

Eu2b=iny Xencof CT2ybT,

Lab Chronicle

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1408-1
SDH: G1403909.110

Client Sample ID: PH03C

Date Collectex: 10d0/ d21 12:14
Date Receivex: 10d12d21 14:04

Lab Sample ID: 890-1408-4

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	AnTlmyiy	8015 NM		1			9896	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.00 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlmyiy	8015s NM		1			9598	10j1Bj31 1B:1B	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.01 a	50 g L	9564	10j15j31 1B:GB	CA	XEN MID
Soluble	AnTlmyiy	G00.0		5			9B9G	10j18j31 31:0B	SC	XEN MID

Laboratory References:

XEN MID d Eu2o=iny Xencof Mi, ITn, f 1311 W. / lo2, T Avef Mi, ITn, f 7X B9B01f 7EL (4G3)B04-5440

Eu2o=iny Xencof CT2ybT,

Accreditation/Certification Summary

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1408-1
SDH: G1403909.110

Laboratory: Eurofins Xenco, Midland

Unless othe2wise noted, all analytes fo2this labo2ato2y we2e cove2ed unde2each acc2editationjce2ification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-31-33	06-G0-33

The following analytes a2e included in this 2epo2t, but the labo2ato2y is not ce2tified by the gove2ning autho2ty. This list may include analytes fo2which the agency does not offe2ce2tification.

Analysis Method	P2ep Method	Mat2x	Analyte
8015 NM		Solid	Total TPz
Total BTEX		Solid	Total BTEX

Method Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1408-1
WD. : G1403909c110

Method	Method Description	Protocol	Laboratory
8031B	VoGanC OrgaelA 2 ompoueds (. 2)	Wt 846	XEN MID
TonaCBTEX	TonaCBTEX 2 aG2uGanloe	TUL WOS	XEN MID
8015 NM	Dli si CRaegi OrgaelAs (DRO) (. 2)	Wt 846	XEN MID
8015B NM	Dli si CRaegi OrgaelAs (DRO) (. 2)	Wt 846	XEN MID
G00c0	Ueloes, loe 2 hromanography	M2 Ut t	XEN MID
50G5	2 Gsi d Wysni m Surgi aed Trap	Wt 846	XEN MID
8015NM Sri p	MlAroi xnraAnloe	Wt 846	XEN MID
DI Li aAh	Di loelzi d t ani r Li aAhleg SroAi duri	UWTM	XEN MID

Protocol References:

UWTM = UWTM leni reanloeaC

M2 Ut t = "Mi nods For 2 hi mlAaCJeaQysls Of t ani r Ued t asni s", ESU-600/4-79-030, MarAh 198GUed Wubsi qui enRi vlsloesc

Wt 846 = "Ti snMi nods For EvaGanleg WoGd t asni , ShyslAaG2 hi mlAaCMi nods", Thlrd Edlnloe, Novi mbi r 1986 Ued Ins Ppdani sc

TUL WOS = Ti srUmi rlAa Laboranorli s, Wnaedard Opi ranleg SroAi duri

Laboratory References:

XEN MID = Eurofles Xi eAo, MldGaed, 1311 t cFGrlda Uvi , MldGaed, TX 79701, TEL (4G3)704-5440

Sample Summary

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1408-1
SD6 : G1403909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1408-1	Pz 0H	Solid	10j05j31 13:03	10j13j31 14:04	1
890-1408-3	Pz 0HA	Solid	10j05j31 13:0H	10j13j31 14:04	3
890-1408-G	Pz 0HB	Solid	10j05j31 13:09	10j13j31 14:04	G
890-1408-4	Pz 0HC	Solid	10j05j31 13:14	10j13j31 14:04	4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

www.xenco.com

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.6/2.4	Thermometer ID	TRM-004
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
PH06	S	10/5/2021	1202	1'	1			
PH06A	S	10/5/2021	1206	2'	1			
PH06B	S	10/5/2021	1209	3'	1			
PH06C	S	10/5/2021	1214	4'	1			

890-1408 Chain of Custody

Work Order Notes

TAT starts the day recevied 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			10-12-21 16:00	2		10.12.21 1404
3				4		
5				6		

Revised Date 101419 Rev 2019.1

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: 890-459 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 #: 890-1408-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	6021B/6036FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH06 (890-1408-1)	10/5/21	12 02 Mountain		Solid			X	X	X	X	X	1	
PH06A (890-1408-2)	10/5/21	12 06 Mountain		Solid			X	X	X	X	X	1	
PH06B (890-1408-3)	10/5/21	12 09 Mountain		Solid			X	X	X	X	X	1	
PH06C (890-1408-4)	10/5/21	12 14 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 compliance 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	Date/Time	Company	Received by	Date/Time	Company
1	10·12·21			JKramer	10·13·21	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.6/1.7

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1408-1
S2 D Number: G1403909.110

Login Number: 1408
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/MS2 s	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: 890-1408-1
S2 D Number: G1403909.110

Login Number: 1408
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/21 12:17 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MS2 s	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1409-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/19/2021 1:43:11 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: Fez Fee 011H

Laboratory Job ID: 890-1409-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1409-1
SDG: 31402909.110

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.
P7orectjSite: / eF / ee 011z

Job ID: 890-1409-1
SDH: G1403909.110

Job ID: 890-1409-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1409-1

Receipt
2Te hsa mleh p e7e 7eceiwev on 10j13j3031 3:04 Pd . Unlehh otTe7p ihe notev belop MtTe hsa mleh s77lwev in , oov convitionMsnvMp Te7e 7egqi7evMm7ome7u m7ehe7wev snv on ice. 2Te tea me7stq7e oytTe coole7st 7eceimt tia e p sh 3.4fC

GC VOA
d etTov 8031° : 2Te a st7lBhmixe j a st7lBhmixe vqmlicste kd Sjd SD(7ecowe7eh yo7m7ems7stion bstcT 880-94) 6 snv snsluticsl bstcT 880-963) p e7e oqthive cont7ol lia ith. Ssa mle a st7lBinte7je7ence snvjo7non-Toa o, eneitu s7e hqhmectev becsqhe tTe shhocistev lsbo7sto7u cont7ol hsa mle kLCS(7ecowe7u p sh p itTin sccemtsnce lia ith.

d etTov 8031° : Sq77o, ste 7ecowe7u yo7tTe yollop in, hsa mleh p e7e oqthive cont7ol lia ith: Pz 0) k890-1409-1(Mkd ° 880-945) j6-A(snv kd ° 880-94) 6j6-A(. Ewivence oya st7lBinte7je7enceh ih not obwioqh.

No svvitionsl snsluticsl o7gqslitu ihhqeh p e7e notevMotTe7tTsn tTohe vehc7lbev sbowe o7in tTe Deyinitionhj Hlohhs7u ms, e.

GC Semi VOA
d etTov 8016d OD_Nd : 2Te RPD oytTe lsbo7sto7u cont7ol hsa mle kLCS(snv lsbo7sto7u cont7ol hsa mle vqmlicste kLCSD(yo7m7ems7stion bstcT 880-9484 snv snsluticsl bstcT 880-9698 7ecowe7ev oqthive cont7ol lia ith yo7tTe yollop in, snsluteh: Hsholine Rsn, e O7, snich kHRO(-C5-C10

No svvitionsl snsluticsl o7gqslitu ihhqeh p e7e notevMotTe7tTsn tTohe vehc7lbev sbowe o7in tTe Deyinitionhj Hlohhs7u ms, e.

HPLC/IC
No svvitionsl snsluticsl o7gqslitu ihhqeh p e7e notevMotTe7tTsn tTohe vehc7lbev sbowe o7in tTe Deyinitionhj Hlohhs7u ms, e.

Client Sample Results

6Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1409-1
WD. : G1403909c110

Client Sample ID: PH07

Date Collected: 10/05/21 12:18
Date Received: 10/12/21 14:04
Sample Depth: 1

Lab Sample ID: 890-1409-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0d00199	P / 3 / 1	0d00199		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1
ToQi ei	B0d00199	P / 1	0d00199		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1
Erhy0i eFi ei	B0d00199	P / 3 / 1	0d00199		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1
< -XyCei & p-XyCei	B0d00G98	P / 3 / 1	0d00G98		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1
o-XyCei	B0d00199	P / 3 / 1	0d00199		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1
XyCei s, TomaC	B0d00G98	P / 3 / 1	0d00G98		< mjg m		10j1Kj31 1G1G	10j15j31 30:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15+*	*S17*	*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58Z1 2+94+*	*1*
1:4-, Dluorobenzene (Surr)	*i 1*		*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58Z1 2+94+*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCHTEX	B0d00G98	P	0d00G98		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCTSz	B49c9	P	49c9		< mjg m			10j19j31 1G3K	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
. asoCei Raemi O2maelAs (. RO)-6 5-6 10	B49c9	P *1	49c9		< mjg m		10j14j31 14:4K	10j17j31 17:G7	1
Dli si CRaemi O2maelAs (Ovi 2 6 10-6 38)	B49c9	P	49c9		< mjg m		10j14j31 14:4K	10j17j31 17:G7	1
OICRaemi O2maelAs (Ovi 26 38-6 G5)	B49c9	P	49c9		< mjg m		10j14j31 14:4K	10j17j31 17:G7	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*T5*		*0+ - 13+*	*1+8l48Z1 149l4/*	*1+8l08Z1 109l30*	*1*
o-peryhen6l	*i 2*		*0+ - 13+*	*1+8l48Z1 149l4/*	*1+8l08Z1 109l30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**640**		34c9		< mjg m			10j18j31 31:1G	K

Client Sample ID: PH07A

Date Collected: 10/05/21 12:21
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1409-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1
ToQi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1
Erhy0i eFi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1
< -XyCei & p-XyCei	B0d00G95	P	0d00G95		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1
o-XyCei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1
XyCei s, TomaC	B0d00G95	P	0d00G95		< mjg m		10j1Kj31 1G1G	10j15j31 31:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*i +*		*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58Z1 219+0*	*1*

Eu2ofles Xi eAo, 6 a2Gbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1409-1
WD. : G1403909d110

Client Sample ID: PH07A
Date Collected: 10/05/21 12:21
Date Received: 10/12/21 14:04
Sample Depth: 2

Lab Sample ID: 890-1409-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1:4-, fluorobenzene (Surr)	*i 2*		*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58 21 219+0*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCHTEX	B0d00G95	P	0d00G95		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCTSz	B49d8	P	49d8		< mjg m			10j19j31 1G3K	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
. asoCei Raemi O2maelAs (. RO)-6 5-6 10	B49d8	P *1	49d8		< mjg m		10j14j31 14:4K	10j17j31 17:K7	1
Dli si CRaemi O2maelAs (Ovi 2 6 10-6 38)	B49d8	P	49d8		< mjg m		10j14j31 14:4K	10j17j31 17:K7	1
OICRaemi O2maelAs (Ovi 26 38-6 G5)	B49d8	P	49d8		< mjg m		10j14j31 14:4K	10j17j31 17:K7	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*T0*		*0+ - 13+*	*1+8l48 21 149l/*	*1+8l08 21 109'0*	*1*
o-peryhen6l	*i /*		*0+ - 13+*	*1+8l48 21 149l/*	*1+8l08 21 109'0*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**722**		Kd0K		< mjg m			10j18j31 31:18	1

Client Sample ID: PH07B
Date Collected: 10/05/21 12:27
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1409-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1
ToQi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1
ErhyQi eFi ei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1
< -XyCei & p-XyCei	B0d00G95	P	0d00G95		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1
o-XyCei	B0d00198	P	0d00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1
XyCei s, TomaC	B0d00G95	P	0d00G95		< mjg m		10j1Kj31 1G1G	10j15j31 31:GG	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*i i*		*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58 21 219l3*	*1*
1:4-, fluorobenzene (Surr)	*1+2*		*0+ - 13+*	*1+8l/ 821 139l3*	*1+8l58 21 219l3*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCHTEX	B0d00G95	P	0d00G95		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TomaCTSz	BK0d0	P	K0d0		< mjg m			10j19j31 1G3K	1

Eu2ofles Xi eAo, 6 a2Sbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1409-1
WD. : G1403909c110

Client Sample ID: PH07B
Date Collected: 10/05/21 12:27
Date Received: 10/12/21 14:04
Sample Depth: 3

Lab Sample ID: 890-1409-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
. asoCei Raemi O2maelAs (. RO)-6 5-6 10	BK0c0	P *1	K0c0		< mjg m		10j14j31 14:4K	10j17j31 18:18	1
Dli si CRaemi O2maelAs (Ovi 2 6 10-6 38)	BK0c0	P	K0c0		< mjg m		10j14j31 14:4K	10j17j31 18:18	1
OlCRaemi O2maelAs (Ovi 26 38-6 G5)	BK0c0	P	K0c0		< mjg m		10j14j31 14:4K	10j17j31 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*Ti*		*0+ - 13+*	*1+8l 48 21 149 4/*	*1+8l 08 21 1T 9l T*	*1*
o-peryhen6l	*i 5*		*0+ - 13+*	*1+8l 48 21 149 4/*	*1+8l 08 21 1T 9l T*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5020**		3Kc0		< mjg m			10j18j31 31:34	K

Client Sample ID: PH07C
Date Collected: 10/05/21 12:33
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1409-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hi eFi ei	B0c00198	P	0c00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1
ToQi ei	B0c00198	P	0c00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1
ErhyCi eFi ei	B0c00198	P	0c00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1
< -XyCei & p-XyCei	B0c00G97	P	0c00G97		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1
o-XyCei	B0c00198	P	0c00198		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1
XyCei s, ToraC	B0c00G97	P	0c00G97		< mjg m		10j1Kj31 1G1G	10j15j31 31:K9	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*i 2*		*0+ - 13+*	*1+8l / 821 139l 3*	*1+8l 58 21 219 i*	*1*
1:4-, fluorobenzene (Surr)	*1+1*		*0+ - 13+*	*1+8l / 821 139l 3*	*1+8l 58 21 219 i*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
ToraCHTEX	B0c00G97	P	0c00G97		< mjg m			10j19j31 1G43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.1**		49c9		< mjg m			10j19j31 1G3K	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	**53.1**	***1**	49c9		< mjg m		10j14j31 14:4K	10j17j31 18:G8	1
Dli si CRaemi O2maelAs (Ovi 2 6 10-6 38)	B49c9	P	49c9		< mjg m		10j14j31 14:4K	10j17j31 18:G8	1
OlCRaemi O2maelAs (Ovi 26 38-6 G5)	B49c9	P	49c9		< mjg m		10j14j31 14:4K	10j17j31 18:G8	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*i 2*		*0+ - 13+*	*1+8l 48 21 149 4/*	*1+8l 08 21 1T 98 T*	*1*
o-peryhen6l	*1++*		*0+ - 13+*	*1+8l 48 21 149 4/*	*1+8l 08 21 1T 98 T*	*1*

Eu2ofles Xi eAo, 6 a2Gbad

Client Sample Results

6 Ct en t WS PWU leAc
S2ori AnjWni : / i F / i i 011z

Job ID: 890-1409-1
WD. : G1403909d110

Client Sample ID: PH07C
Date Collected: 10/05/21 12:33
Date Received: 10/12/21 14:04
Sample Depth: 4

Lab Sample ID: 890-1409-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	487	F1	Kc01		< mjg m			10j18j31 31:G0	1

Surrogate Summary

2Ct en t WS PWU leAc
Sroji An/Wri : Fi z Fi i 011H

Job ID: 890-1409-1
WD. : G1403909c110

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)										
890-1409-1	SH0+	170 Wl5	91										
890-1409-1 6 W	SH0+	9+	108										
890-1409-1 6 WD	SH0+	118	113										
890-1409-3	SH0+U	90	93										
890-1409-G	SH0+M	99	103										
890-1409-4	SH0+2	93	101										
B2 W880-94+a/1-U	Bxb 2 oerroOWkp kCC	90	10G										
B2 WD 880-94+a/3-U	Bxb 2 oerroOWkp kCC Duk	91	10a										
6 M880-947+/a-U	6 i rLomMQeh	aa Wl-	94										
6 M880-94+a/a-U	6 i rLomMQeh	a9 Wl-	94										

Surrogate Legend

MFM d 4-Mrop o=Qorobi ezi ei fWurr(
DFM) d 1Z4-DI=Qorobi ezi ei fWurr(

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)										
890-1407-U-1-D 6 W	6 xml, Wklhi	9+	93										
890-1407-U-1-O 6 WD	6 xml, Wklhi Duk0Axri	94	90										
890-1409-1	SH0+	87	93										
890-1409-3	SH0+U	8+	9a										
890-1409-G	SH0+M	89	97										
890-1409-4	SH0+2	93	100										
B2 W880-9484/3-U	Bxb 2 oerroOWkp kCC	83	91										
B2 WD 880-9484/G-U	Bxb 2 oerroOWkp kCC Duk	9G	91										
6 M880-9484/1-U	6 i rLomMQeh	97	10a										

Surrogate Legend

12 T d 1-2 LQroo Anxei
Ty SH d o-yi rk Li eEC

Ouro=es Xi eAoZ2 xrGbxm

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1409-1
SDG: 31402909.110

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-674/ 5A-x
MatriP: Solid
x nalNsis Batch: 6A2/

Client Sample ID: Method Blank
Trep yNpe: yotal53 x
Trep Batch: 674/

x nalNte	MB Result	MB Qualifier	RL		Unit	D	Trepared	x nalNzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 10:00	10/16/21 06:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 10:00	10/16/21 06:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*	*S7-*	*03 - 7/ 3*	*735715 7 73633*	*735725 7 3267/*	*7*
7D4-i 9luorobenzene (Surr)	*, 4*		*03 - 7/ 3*	*735715 7 73633*	*735725 7 3267/*	*7*

Lab Sample ID: MB 880-67/ A5A-x
MatriP: Solid
x nalNsis Batch: 6A2/

Client Sample ID: Method Blank
Trep yNpe: yotal53 x
Trep Batch: 67/ A

x nalNte	MB Result	MB Qualifier	RL		Unit	D	Trepared	x nalNzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/15/21 13:13	10/16/21 20:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/15/21 13:13	10/16/21 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1,*	*S7-*	*03 - 7/ 3*	*735715 7 7/ 67/*	*735725 7 : 36/*	*7*
7D4-i 9luorobenzene (Surr)	*, 4*		*03 - 7/ 3*	*735715 7 7/ 67/*	*735725 7 : 36/*	*7*

Lab Sample ID: LCS 880-67/ A5I-x
MatriP: Solid
x nalNsis Batch: 6A2/

Client Sample ID: Lab Control Sample
Trep yNpe: yotal53 x
Trep Batch: 67/ A

x nalNte			Spike x dded	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08997		mg/Kg		90	70 - 130		
Toluene			0.100	0.08622		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08840		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1738		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08893		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 3*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*73/*		*03 - 7/ 3*

Lab Sample ID: LCSD 880-67/ A52-x
MatriP: Solid
x nalNsis Batch: 6A2/

Client Sample ID: Lab Control Sample Dup
Trep yNpe: yotal53 x
Trep Batch: 67/ A

x nalNte			Spike x dded	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Benzene			0.100	0.08597		mg/Kg		86	70 - 130	5	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1409-1
SDG: 31402909.110

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

Lab Sample ID: LCSD 880-67/ A52-x — **Client Sample ID: Lab Control Sample Dup**
MatriP: Solid — **Trep yNpe: yotal53 x**
x nalNsis Batch: 6A2/ — **Trep Batch: 67/ A**

x nalNte			Spike x dded	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Toluene			0.100	0.08904		mg/Kg		89	70 - 130	3	35
Ethylbenzene			0.100	0.08589		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1697		mg/Kg		85	70 - 130	2	35
o-Xylene			0.100	0.08790		mg/Kg		88	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 7*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*731*		*03 - 7/ 3*

Lab Sample ID: 860-1706-1 MS — **Client Sample ID: T9 0/**
MatriP: Solid — **Trep yNpe: yotal53 x**
x nalNsis Batch: 6A2/ — **Trep Batch: 67/ A**

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.100	0.07320		mg/Kg		73	70 - 130
Toluene	<0.00199	U F1	0.100	0.06060	F1	mg/Kg		60	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.07085		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.01955	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00199	U F2 F1	0.100	0.07847		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*, 0*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*73C*		*03 - 7/ 3*

Lab Sample ID: 860-1706-1 MSD — **Client Sample ID: T9 0/**
MatriP: Solid — **Trep yNpe: yotal53 x**
x nalNsis Batch: 6A2/ — **Trep Batch: 67/ A**

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Benzene	<0.00199	U F2 F1	0.0990	0.03372	F2 F1	mg/Kg		34	70 - 130	74	35
Toluene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.03244	F2 F1	mg/Kg		33	70 - 130	74	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.01108	F2 F1	mg/Kg		6	70 - 130	55	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.04261	F2 F1	mg/Kg		43	70 - 130	59	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*77C*		*03 - 7/ 3*
7D4-i 9luorobenzene (Surr)	*77:*		*03 - 7/ 3*

Method: 801AB 3 M - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-67875 1-x — **Client Sample ID: Method Blank**
MatriP: Solid — **Trep yNpe: yotal53 x**
x nalNsis Batch: 6A68 — **Trep Batch: 6787**

x nalNte	MB Result	MB Qualifier	RL		Unit	D	Trepared	x nalNzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/17/21 11:31	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1409-1
SDG: 31402909.110

Method: 801AB 3 M - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-67875-x
MatriP: Solid
x nalNsis Batch: 6A68

Client Sample ID: Method Blank
Trep yNpe: yotal53 x
Trep Batch: 6787

x nalNte	MB Result	MB Qualifier	RL		Unit	D	Trepared	x nalNzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/17/21 11:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/14/21 14:45	10/17/21 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-h cloroot aTne	*, 2*		*03 - 7/ 3*	*735745 7 746/41*	*735705 7 776/ 7*	*7*
o-perycen8l	*731*		*03 - 7/ 3*	*735745 7 746/41*	*735705 7 776/ 7*	*7*

Lab Sample ID: LCS 880-67875-2-x
MatriP: Solid
x nalNsis Batch: 6A68

Client Sample ID: Lab Control Sample
Trep yNpe: yotal53 x
Trep Batch: 6787

x nalNte			Spike x dded	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	780.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	880.0		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-h cloroot aTne	*C*		*03 - 7/ 3*
o-perycen8l	*, 7*		*03 - 7/ 3*

Lab Sample ID: LCSD 880-67875-H-x
MatriP: Solid
x nalNsis Batch: 6A68

Client Sample ID: Lab Control Sample Dup
Trep yNpe: yotal53 x
Trep Batch: 6787

x nalNte			Spike x dded	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.9	*1	mg/Kg		100	70 - 130	25	20
Diesel Range Organics (Over C10-C28)			1000	878.9		mg/Kg		88	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-h cloroot aTne	*, /*		*03 - 7/ 3*
o-perycen8l	*, 7*		*03 - 7/ 3*

Lab Sample ID: 860-1704-x -1-D MS
MatriP: Solid
x nalNsis Batch: 6A68

Client Sample ID: MatriP Spike
Trep yNpe: yotal53 x
Trep Batch: 6787

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	997	939.6		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	894.7		mg/Kg		90	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-h cloroot aTne	*, 0*		*03 - 7/ 3*
o-perycen8l	*, :*		*03 - 7/ 3*

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1409-1
SDG: 31402909.110

Method: 801AB 3 M - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 860-1704-x -1-, MSD — **Client Sample ID: MatriP Spike Duplicate**
MatriP: Solid — **Trep yNpe: yotal53 x**
x nalNsis Batch: 6A68 — **Trep Batch: 6787**

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	974.1		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	880.8		mg/Kg		88	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-h cloroot aTne	*, 4*		*03 - 7/ 3*
o-perycen8l	*, 3*		*03 - 7/ 3*

Method: H00.0 - x nionsEIon ChromatographN

Lab Sample ID: MB 880-6A475l-x — **Client Sample ID: Method Blank**
MatriP: Solid — **Trep yNpe: Soluble**
x nalNsis Batch: 6/ 6H

x nalNte	MB Result	MB Qualifier	RL		Unit	D	Trepared	x nalNzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/18/21 19:54	1

Lab Sample ID: LCS 880-6A475 2-x — **Client Sample ID: Lab Control Sample**
MatriP: Solid — **Trep yNpe: Soluble**
x nalNsis Batch: 6/ 6H

x nalNte			Spike x dded	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	245.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-6A475H-x — **Client Sample ID: Lab Control Sample Dup**
MatriP: Solid — **Trep yNpe: Soluble**
x nalNsis Batch: 6/ 6H

x nalNte			Spike x dded	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Chloride			250	246.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 860-1706-7 MS — **Client Sample ID: T9 0/ C**
MatriP: Solid — **Trep yNpe: Soluble**
x nalNsis Batch: 6/ 6H

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	487	F1	251	804.2	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 860-1706-7 MSD — **Client Sample ID: T9 0/ C**
MatriP: Solid — **Trep yNpe: Soluble**
x nalNsis Batch: 6/ 6H

x nalNte	Sample Result	Sample Qualifier	Spike x dded	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RTD	RTD Limit
Chloride	487	F1	251	805.1	F1	mg/Kg		127	90 - 110	0	20

QC Association Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1409-1
WD. : G1403909d110

GC VOA

Prep Batch: 9467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-946h/5-U	Mi raod BCkeT	NorkC7 U	WbCkl	50G5	

Prep Batch: 9475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NorkC7 U	WbCkl	50G5	
890-1409-3	SH0hU	NorkC7 U	WbCkl	50G5	
890-1409-G	SH0hB	NorkC7 U	WbCkl	50G5	
890-1409-4	SH0h2	NorkC7 U	WbCkl	50G5	
MB 880-94h5/5-U	Mi raod BCkeT	NorkC7 U	WbCkl	50G5	
L2W880-94h5/1-U	Lkb 2oerroCVkmpC	NorkC7 U	WbCkl	50G5	
L2WD 880-94h5/3-U	Lkb 2oerroCVkmpC Dup	NorkC7 U	WbCkl	50G5	
890-1409-1 MW	SH0h	NorkC7 U	WbCkl	50G5	
890-1409-1 MWD	SH0h	NorkC7 U	WbCkl	50G5	

Analysis Batch: 9527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NorkC7 U	WbCkl	8031B	94h5
890-1409-3	SH0hU	NorkC7 U	WbCkl	8031B	94h5
890-1409-G	SH0hB	NorkC7 U	WbCkl	8031B	94h5
890-1409-4	SH0h2	NorkC7 U	WbCkl	8031B	94h5
MB 880-946h/5-U	Mi raod BCkeT	NorkC7 U	WbCkl	8031B	946h
MB 880-94h5/5-U	Mi raod BCkeT	NorkC7 U	WbCkl	8031B	94h5
L2W880-94h5/1-U	Lkb 2oerroCVkmpC	NorkC7 U	WbCkl	8031B	94h5
L2WD 880-94h5/3-U	Lkb 2oerroCVkmpC Dup	NorkC7 U	WbCkl	8031B	94h5
890-1409-1 MW	SH0h	NorkC7 U	WbCkl	8031B	94h5
890-1409-1 MWD	SH0h	NorkC7 U	WbCkl	8031B	94h5

Analysis Batch: 9900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NorkC7 U	WbCkl	NorkCBNxE	
890-1409-3	SH0hU	NorkC7 U	WbCkl	NorkCBNxE	
890-1409-G	SH0hB	NorkC7 U	WbCkl	NorkCBNxE	
890-1409-4	SH0h2	NorkC7 U	WbCkl	NorkCBNxE	

GC Semi VOA

Prep Batch: 9484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NorkC7 U	WbCkl	80157 M Srip	
890-1409-3	SH0hU	NorkC7 U	WbCkl	80157 M Srip	
890-1409-G	SH0hB	NorkC7 U	WbCkl	80157 M Srip	
890-1409-4	SH0h2	NorkC7 U	WbCkl	80157 M Srip	
MB 880-9484/1-U	Mi raod BCkeT	NorkC7 U	WbCkl	80157 M Srip	
L2W880-9484/3-U	Lkb 2oerroCVkmpC	NorkC7 U	WbCkl	80157 M Srip	
L2WD 880-9484/G-U	Lkb 2oerroCVkmpC Dup	NorkC7 U	WbCkl	80157 M Srip	
890-1406-U-1-D MW	MkmlXWplTi	NorkC7 U	WbCkl	80157 M Srip	
890-1406-U-1-x MWD	MkmlXWplTi DupCAkri	NorkC7 U	WbCkl	80157 M Srip	

Analysis Batch: 9598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NorkC7 U	WbCkl	8015B 7 M	9484

xurofles Ei eAo, 2krCbkd

QC Association Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1409-1
WD. : G1403909d110

GC Semi VOA 3Continued(

Analysis Batch: 9598 3Continued(

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-3	SH0hU	NbrkC7 U	WbCbl	8015B 7 M	9484
890-1409-G	SH0hB	NbrkC7 U	WbCbl	8015B 7 M	9484
890-1409-4	SH0h2	NbrkC7 U	WbCbl	8015B 7 M	9484
MB 880-9484/1-U	Mi raod BCkeT	NbrkC7 U	WbCbl	8015B 7 M	9484
L2 W880-9484/3-U	Lkb 2 oerroCVkmpC	NbrkC7 U	WbCbl	8015B 7 M	9484
L2 WD 880-9484/G-U	Lkb 2 oerroCVkmpC Dup	NbrkC7 U	WbCbl	8015B 7 M	9484
890-1406-U-1-D MW	MkmlX WplTi	NbrkC7 U	WbCbl	8015B 7 M	9484
890-1406-U-1-x MWD	MkmlX WplTi DupCAkri	NbrkC7 U	WbCbl	8015B 7 M	9484

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	NbrkC7 U	WbCbl	8015 7 M	
890-1409-3	SH0hU	NbrkC7 U	WbCbl	8015 7 M	
890-1409-G	SH0hB	NbrkC7 U	WbCbl	8015 7 M	
890-1409-4	SH0h2	NbrkC7 U	WbCbl	8015 7 M	

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Leach Batch: 9564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	WbCbC	WbCbl	DI Li kAa	
890-1409-3	SH0hU	WbCbC	WbCbl	DI Li kAa	
890-1409-G	SH0hB	WbCbC	WbCbl	DI Li kAa	
890-1409-4	SH0h2	WbCbC	WbCbl	DI Li kAa	
MB 880-9564/1-U	Mi raod BCkeT	WbCbC	WbCbl	DI Li kAa	
L2 W880-9564/3-U	Lkb 2 oerroCVkmpC	WbCbC	WbCbl	DI Li kAa	
L2 WD 880-9564/G-U	Lkb 2 oerroCVkmpC Dup	WbCbC	WbCbl	DI Li kAa	
890-1409-4 MW	SH0h2	WbCbC	WbCbl	DI Li kAa	
890-1409-4 MWD	SH0h2	WbCbC	WbCbl	DI Li kAa	

Analysis Batch: 979/

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1409-1	SH0h	WbCbC	WbCbl	G00d0	9564
890-1409-3	SH0hU	WbCbC	WbCbl	G00d0	9564
890-1409-G	SH0hB	WbCbC	WbCbl	G00d0	9564
890-1409-4	SH0h2	WbCbC	WbCbl	G00d0	9564
MB 880-9564/1-U	Mi raod BCkeT	WbCbC	WbCbl	G00d0	9564
L2 W880-9564/3-U	Lkb 2 oerroCVkmpC	WbCbC	WbCbl	G00d0	9564
L2 WD 880-9564/G-U	Lkb 2 oerroCVkmpC Dup	WbCbC	WbCbl	G00d0	9564
890-1409-4 MW	SH0h2	WbCbC	WbCbl	G00d0	9564
890-1409-4 MWD	SH0h2	WbCbC	WbCbl	G00d0	9564

Lab Chronicle

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1409-1
SDH: G1403909.110

Client Sample ID: PH03
Date Collectex: 10d0/ d21 12:18
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1409-1
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.0Ga	5 g L	9465	10j15j31 1G:1G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10j1Bj31 30:40	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			989B	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.0Ga	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j16j31 16:G6	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.0Ga	50 g L	95B4	10j15j31 16:G6	CA	XEN MID
Soluble	AnTlnyiy	G00.0		5			969G	10j18j31 31:1G	SC	XEN MID

Client Sample ID: PH03A
Date Collectex: 10d0/ d21 12:21
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1409-2
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.05 a	5 g L	9465	10j15j31 1G:1G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10j1Bj31 31:06	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			989B	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.04 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j16j31 16:56	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.95 a	50 g L	95B4	10j15j31 16:G6	CA	XEN MID
Soluble	AnTlnyiy	G00.0		1	0 g L	1.0 g L	969G	10j18j31 31:18	SC	XEN MID

Client Sample ID: PH03B
Date Collectex: 10d0/ d21 12:23
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1409-7
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.05 a	5 g L	9465	10j15j31 1G:1G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10j1Bj31 31:GG	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID
7otTljNA	AnTlnyiy	8015 NM		1			989B	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.01 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlnyiy	8015s NM		1			9598	10j16j31 18:18	AJ	XEN MID
Soluble	LeTch	DI LeTch			5.00 a	50 g L	95B4	10j15j31 16:G6	CA	XEN MID
Soluble	AnTlnyiy	G00.0		5	0 g L	1.0 g L	969G	10j18j31 31:34	SC	XEN MID

Client Sample ID: PH03C
Date Collectex: 10d0/ d21 12:77
Date Receivex: 10dl2d21 14:04

Lab Sample ID: 890-1409-4
5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	P2ep	50G5			5.04 a	5 g L	9465	10j15j31 1G:1G	KL	XEN MID
7otTljNA	AnTlnyiy	8031s		1	5 g L	5 g L	9536	10j1Bj31 31:59	MR	XEN MID
7otTljNA	AnTlnyiy	7otTl s7EX		1			9900	10j19j31 1G:43	AJ	XEN MID

Eu2b=ny Xencof CT2ybT,

Lab Chronicle

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1409-1
SDH: G1403909.110

Client Sample ID: PH03C

Date Collectex: 10d0/ d21 12:77
Date Receivex: 10d12d21 14:04

Lab Sample ID: 890-1409-4

5 atriM Solix

Prep Type	Batch Type	Batch 5 ethox	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparex or Analyzex	Analyst	Lab
7otTljNA	AnTlmyiy	8015 NM		1			989B	10j19j31 1G:35	AJ	XEN MID
7otTljNA	P2ep	8015NM P2ep			10.03 a	10 g L	9484	10j14j31 14:45	DM	XEN MID
7otTljNA	AnTlmyiy	8015s NM		1			9598	10j16j31 18:G8	AJ	XEN MID
Soluble	LeTch	DI LeTch			4.99 a	50 g L	95B4	10j15j31 16:G6	CA	XEN MID
Soluble	AnTlmyiy	G00.0		1	0 g L	1.0 g L	969G	10j18j31 31:G0	SC	XEN MID

Laboratory References:

XEN MID d Eu2o=iny Xencof Mi, lTn, f 1311 W. / lo2, T Avef Mi, lTn, f 7X 69601f 7EL (4G3)604-5440

Eu2o=iny Xencof CT2ybT,

Accreditation/Certification Summary

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1409-1
SDH: G1403909.110

Laboratory: Eurofins Xenco, Midland

Unless othe2wise noted, all analytes fo2this labo2ato2y we2e cove2ed unde2each acc2editationjce2ification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-31-33	06-G0-33

The following analytes a2e included in this 2epo2t, but the labo2ato2y is not ce2tified by the gove2ning autho2ty. This list may include analytes fo2which the agency does not offe2ce2tification.

Analysis Method	P2ep Method	Mat2x	Analyte
8015 NM		Solid	Total TPz
Total BTEX		Solid	Total BTEX

Method Summary

2Ct en t WS PWU leAc
Sroji AnWni : Fi z Fi i 011H

Job ID: 890-1409-1
WD. : G1403909c110

Method	Method Description	Protocol	Laboratory
8031B	VoGanC OrgaelA 2 ompoueds (. 2)	Wt 846	XEN MID
TonaCBTEX	TonaCBTEX 2 aG2uGanloe	TUL WOS	XEN MID
8015 NM	Dli si CRaegi OrgaelAs (DRO) (. 2)	Wt 846	XEN MID
8015B NM	Dli si CRaegi OrgaelAs (DRO) (. 2)	Wt 846	XEN MID
G00c0	Ueloes, loe 2 hromanography	M2 Ut t	XEN MID
50G5	2 Gosi d Wysni m Surgi aed Trap	Wt 846	XEN MID
8015NM Sri p	MlAroi xnraAnloe	Wt 846	XEN MID
DI Li aAh	Di loelzi d t ani r Li aAhleg SroAi duri	UWTM	XEN MID

Protocol References:

UWTM = UWTM leni reanloeaC

M2 Ut t = "Mi nods For 2 hi mlAaCUeaQysls Of t ani r Ued t asni s", ESU-600/4-79-030, MarAh 198G Ued Wubsi qui enRi vlsloesc

Wt 846 = "Ti snMi nods For EvaGanleg WoGd t asni , ShyslAaG2 hi mlAaCMi nods", Thlrd Edlnloe, Novi mbi r 1986 Ued Ins Ppdani sc

TUL WOS = Ti srUmi rlAa Laboranorli s, Wnaedard Opi ranleg SroAi duri

Laboratory References:

XEN MID = Eurofles Xi eAo, MldGaed, 1311 t cFGrlda Uvi , MldGaed, TX 79701, TEL (4G3)704-5440

Sample Summary

Client: WSP USA Inc.
P2brectjSite: / eF / ee 011z

Job ID: 890-1409-1
SD5 : G1403909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1409-1	Pz 0H	Solid	10j07j31 13:18	10j13j31 14:04	1
890-1409-3	Pz 0HA	Solid	10j07j31 13:31	10j13j31 14:04	3
890-1409-G	Pz 0HB	Solid	10j07j31 13:3H	10j13j31 14:04	G
890-1409-4	Pz 0HC	Solid	10j07j31 13:GG	10j13j31 14:04	4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

www.xenco.com

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Fez Fee 011H	Turn Around	
Project Number:	31402909.110	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	2.6/2.4	Thermometer ID	TMH007
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

890-1409 Chain of Custody

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
PH07	S	10/5/2021	1218	1'	1				
PH07A	S	10/5/2021	1221	2'	1				
PH07B	S	10/5/2021	1227	3'	1				
PH07C	S	10/5/2021	1233	4'	1				

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		10-12-21/4.00	2		10.12.21 1404
3			4		
5			6		

Revised Date101419 Rev 2019 1

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-459 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 #: 890-1409-1
Address: 1211 W Florida Ave	Due Date Requested: 10/18/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: fez fee 011h	Project #: 89000004			
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 (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH07 (890-1409-1)	10/5/21	12 18 Mountain		Solid			X	X	X	X	X	1	
PH07A (890-1409-2)	10/5/21	12 21 Mountain		Solid			X	X	X	X	X	1	
PH07B (890-1409-3)	10/5/21	12 27 Mountain		Solid			X	X	X	X	X	1	
PH07C (890-1409-4)	10/5/21	12 33 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	Date/Time:	Company	Received by	Date/Time	Company
1	Clue 10.12.21			KRAMER	10 13 21	
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: 1.6/1.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1409-1
S2 D Number: G1403909.110

Login Number: 1409
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/MS2 s	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: 890-1409-1
S2 D Number: G1403909.110

Login Number: 1409
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/13/21 12:17 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MS2 s	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1452-1
Laboratory Sample Delivery Group: 31402909.110
Client Project/Site: Fez Fee 011H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/28/2021 3:13:20 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: Fez Fee 011H

Laboratory Job ID: 890-1452-1
SDG: 31402909.110

Table of Contents

Definitions/Glossary

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MP at d/or MPD rn. ovnry nx. nnds . ot Wbi ienesG
FC	MP/MPD RUD nx. nnds . ot Wbi ienes
A	It de aWs Wn at aiyW u as at aiyznd gor b, W oWdnW. WdG

GC Semi VOA

Qualifier	Qualifier Description
P1h	P, rrowaW rn. ovnry nx. nnds . ot Wbi ienesf +ew+ beasndG
A	It de aWs Wn at aiyW u as at aiyznd gor b, W oWdnW. WdG

HPLC/IC

Qualifier	Qualifier Description
A	It de aWs Wn at aiyW u as at aiyznd gor b, W oWdnW. WdG

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Les\Wd , t dnr Wn "D" . oi, mt Wdnsewt aW WaWn rns, iWs rnporWd ot a dry u new+Wbases
%R	Unr. nt WRn. ovnry
l FL	l ot Wes Frnn Leq, ed
l FA	l oiot y Formet wAt eW
l NF	l ot Wes No Frnn Leq, ed
DER	D, pie aW Error RaWb (t ormaiend absoi, W degnrnt . n)
Dei Fa.	Dei, Wbt Fa. Wr
DL	DnW. Wbt LeneW(DoD/DOE)
DLf Rcf REf IN	It de aWs a Dei, Wbt f Rn-at aiyses f Rn-nxWa. Wbt f or addedWbt ai It eWai mnWis/at et at aiyses ogWn sampin
DLI	Dn. esebt Lnvni l ot . nt WaWbt (Radeo. +nmesWy)
EDL	EsWnaWd DnW. Wbt LeneW(Deoxet)
LOD	LeneWogDnW. Wbt (DoD/DOE)
LOQ	LeneWogQ, at WeWbt (DoD/DOE)
Ml L	EUc rn. ommnt dnd "Maxen, m l ot Wmet at WLnvni"
MDc	Met en, m DnW. Wbin c . WeyW (Radeo. +nmesWy)
MDI	Met en, m DnW. Wbin l ot . nt WaWbt (Radeo. +nmesWy)
MDL	MnWod DnW. Wbt LeneW
ML	Met en, m Lnvni (Deoxet)
MUN	MosWUrobabin N, mbnr
MQL	MnWod Q, at WeWbt LeneW
NI	NoW ai. , iaWd
ND	NoWDnW. Wd aWn rnporW wieneW(or MDL or EDL egs+out)
NE3	Nnwa Wn / c bsnt W
UOP	UoseWn / Urnsnt W
UQL	Ura. We ai Q, at WeWbt LeneW
UREP	Urns, mpWn
QI	Q, aieW l ot Wbi
RER	RniaWn Error RaWb (Radeo. +nmesWy)
RL	RnporW wLeneW or Rnq, nsWd LeneW(Radeo. +nmesWy)
RUD	RniaWn Unr. nt WDegnrnt . nf a mnas, rn ogWn rniaWn degnrnt . n bnWnnt Wo poet W
TEF	Toxe eW Eq, evaint WFa. Wr (Deoxet)
TEQ	Toxe eW Eq, evaint WQ, oWnt W(Deoxet)
TNTI	Too N, mnro, s To l o, t W

Case Narrative

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Job ID: 890-1452-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1452-1

Receipt
The samples were received on 10/19/2021 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10014 and analytical batch 880-10340 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10015 and analytical batch 880-10201 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: Surrogate recovery for the following sample was outside control limits: (890-1450-A-1-D). Evidence of matrix interferences is not obvious.

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

HPLC/IC
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: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: FS01

Lab Sample ID: 890-1452-1

Date Collected: 10/18/21 14:10
Matrix: Solid
Date Received: 10/19/21 15:53
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/21/21 14:36	10/25/21 01:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/21/21 14:36	10/25/21 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*17*		*03 - / 53*	*/ 32 / 2 / / 4657*	*/ 32 , 2 / 3/ 6 /*	*/*
/ D4-i 9fluorobenzene (Surr)	*/ 37*		*03 - / 53*	*/ 32 / 2 / / 4657*	*/ 32 , 2 / 3/ 6 /*	*/*

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			10/26/21 15:12	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			10/25/21 19:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/25/21 10:09	10/25/21 14:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/25/21 10:09	10/25/21 14:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/25/21 10:09	10/25/21 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
/ -Chlorooctane	*14*		*03 - / 53*	*/ 32 , 2 / / 3631*	*/ 32 , 2 / / 46 T*	*/*
o-peryhen8l	*/ 33*		*03 - / 53*	*/ 32 , 2 / / 3631*	*/ 32 , 2 / / 46 T*	*/*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5390**		25.0		mg/Kg			10/25/21 23:15	5

Client Sample ID: FS02

Lab Sample ID: 890-1452-2

Date Collected: 10/18/21 14:12
Matrix: Solid
Date Received: 10/19/21 15:53
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/21/21 14:36	10/25/21 01:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/21/21 14:36	10/25/21 01:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/21/21 14:36	10/25/21 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*1T*		*03 - / 53*	*/ 32 / 2 / / 4657*	*/ 32 , 2 / 3/ 64:*	*/*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: FS02

Date Collected: 10/18/21 14:12
Date Received: 10/19/21 15:53
Sample Depth: 4

Lab Sample ID: 890-1452-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
/ D4-i 9luorobenzene (Surr)	/ 3:		03 - / 53	/ 32 / 2 / / 4657	/ 32 , 2 / 3/ 64:	/

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			10/26/21 15:12	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			10/27/21 11:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 00:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
/ -Chlorooctane	/ 35		03 - / 53	/ 32 02 / / 5643	/ 32 T2 / 336 /	/
o-peryhen8l	/ : 3		03 - / 53	/ 32 02 / / 5643	/ 32 T2 / 336 /	/

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6560**		50.0		mg/Kg			10/25/21 23:33	10

Client Sample ID: FS03

Date Collected: 10/18/21 14:15
Date Received: 10/19/21 15:53
Sample Depth: 4

Lab Sample ID: 890-1452-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/21/21 14:36	10/25/21 02:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/21/21 14:36	10/25/21 02:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/21/21 14:36	10/25/21 02:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/21/21 14:36	10/25/21 02:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/21/21 14:36	10/25/21 02:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/21/21 14:36	10/25/21 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	T1		03 - / 53	/ 32 / 2 / / 4657	/ 32 , 2 / 3: 63:	/
/ D4-i 9luorobenzene (Surr)	/ 33		03 - / 53	/ 32 / 2 / / 4657	/ 32 , 2 / 3: 63:	/

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			10/26/21 15:12	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			10/27/21 11:09	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: FS03

Lab Sample ID: 890-1452-3
Matrix: Solid
Date Collected: 10/18/21 14:15
Date Received: 10/19/21 15:53
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 150*	*10/27/21 13:40*	*10/28/21 01:11*	*1*
o-Terphenyl	*113*		*70 - 150*	*10/27/21 13:40*	*10/28/21 01:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6560**		49.8		mg/Kg			10/25/21 23:38	10

Client Sample ID: FS04

Lab Sample ID: 890-1452-4
Matrix: Solid
Date Collected: 10/18/21 16:05
Date Received: 10/19/21 15:53
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/21/21 14:36	10/25/21 02:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/21/21 14:36	10/25/21 02:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/21/21 14:36	10/25/21 02:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/21/21 14:36	10/25/21 02:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/21/21 14:36	10/25/21 02:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/21/21 14:36	10/25/21 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*		*70 - 130*	*10/21/21 14:36*	*10/25/21 02:23*	*1*
1,4-Difluorobenzene (Surr)	*131*		*70 - 130*	*10/21/21 14:36*	*10/25/21 02:23*	*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			10/26/21 15:12	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			10/27/21 11:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*		*70 - 150*	*10/27/21 13:40*	*10/28/21 01:30*	*1*
o-Terphenyl	*117*		*70 - 150*	*10/27/21 13:40*	*10/28/21 01:30*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: FS04
Lab Sample ID: 890-1452-4

Date Collected: 10/18/21 16:05
Matrix: Solid
Date Received: 10/19/21 15:53
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		4.95		mg/Kg			10/25/21 23:44	1

Client Sample ID: SW01
Lab Sample ID: 890-1452-5

Date Collected: 10/18/21 14:50
Matrix: Solid
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 11:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 11:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 11:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/22/21 09:45	10/24/21 11:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 11:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/22/21 09:45	10/24/21 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15*		*03 - / 53*	*/ 32 : 2 / 316#,*	*/ 32 42 / // 6 ,*	*/*
/ D4-i 9luorobenzene (Surr)	*/ 31*		*03 - / 53*	*/ 32 : 2 / 316#,*	*/ 32 42 / // 6 ,*	*/*

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			10/26/21 15:12	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			10/27/21 11:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
/ -Chlorooctane	*/ 3/*		*03 - / 53*	*/ 32 02 / / 56#3*	*/ 32 T2 / 3/ 6 3*	*/*
o-peryhen8l	*// 5*		*03 - / 53*	*/ 32 02 / / 56#3*	*/ 32 T2 / 3/ 6 3*	*/*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.97		mg/Kg			10/25/21 23:50	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: SW02

Lab Sample ID: 890-1452-6

Date Collected: 10/18/21 15:46
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 12:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 12:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 12:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/22/21 09:45	10/24/21 12:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/22/21 09:45	10/24/21 12:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/22/21 09:45	10/24/21 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*/ 3:*		*03 - / 53*	*/ 32 : 2 / 3164,*	*/ 32 42 / / : 6 7*	*/*
/ D4-i 9luorobenzene (Surr)	*// ,*		*03 - / 53*	*/ 32 : 2 / 3164,*	*/ 32 42 / / : 6 7*	*/*

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			10/26/21 15:12	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			10/27/21 11:09	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		10/27/21 13:40	10/28/21 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/27/21 13:40	10/28/21 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/27/21 13:40	10/28/21 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
/ -Chlorooctane	*/ 3/*		*03 - / 53*	*/ 32 02 / / 5643*	*/ 32 T2 / 3: 6 3*	*/*
o-peryhen8l	*// 3*		*03 - / 53*	*/ 32 02 / / 5643*	*/ 32 T2 / 3: 6 3*	*/*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.99		mg/Kg			10/25/21 23:56	1

Client Sample ID: SW03

Lab Sample ID: 890-1452-7

Date Collected: 10/18/21 14:54
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

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		10/20/21 14:39	10/24/21 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:39	10/24/21 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:39	10/24/21 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/20/21 14:39	10/24/21 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/20/21 14:39	10/24/21 13:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/20/21 14:39	10/24/21 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*14*		*03 - / 53*	*/ 32 32 / / 4651*	*/ 32 42 / / 5653*	*/*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: SW03

Date Collected: 10/18/21 14:54
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

Lab Sample ID: 890-1452-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
/ D4-i 9luorobenzene (Surr)	11		03 - / 53	/ 32 32 / / 4651	/ 32 42 / / 5653	/

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			10/26/21 15:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/27/21 12:13	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		10/27/21 13:40	10/28/21 02:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/27/21 13:40	10/28/21 02:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/27/21 13:40	10/28/21 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
/ -Chlorooctane	/ 3/		03 - / 53	/ 32 02 / / 5643	/ 32 T2 / 3: 653	/
o-peryhen8l	/ 31		03 - / 53	/ 32 02 / / 5643	/ 32 T2 / 3: 653	/

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.05	mg/Kg			10/26/21 00:02	1

Client Sample ID: SW04

Date Collected: 10/18/21 16:12
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

Lab Sample ID: 890-1452-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:39	10/24/21 13:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:39	10/24/21 13:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:39	10/24/21 13:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/20/21 14:39	10/24/21 13:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/20/21 14:39	10/24/21 13:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/20/21 14:39	10/24/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	17		03 - / 53	/ 32 32 / / 4651	/ 32 42 / / 56 3	/
/ D4-i 9luorobenzene (Surr)	/ 35		03 - / 53	/ 32 32 / / 4651	/ 32 42 / / 56 3	/

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			10/26/21 15:12	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			10/27/21 12:13	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Client Sample ID: SW04

Lab Sample ID: 890-1452-8

Date Collected: 10/18/21 16:12
Matrix: Solid
Date Received: 10/19/21 15:53
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 02:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 02:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/27/21 13:40	10/28/21 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*		*70 - 153*	*10/27/21 13:40*	*10/28/21 02:50*	*1*
o-Terphenyl	*111*		*70 - 153*	*10/27/21 13:40*	*10/28/21 02:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.9**		5.02		mg/Kg			10/26/21 00:08	1

Surrogate Summary

I ie=t WS PU APc It . G
Ujo/n. WPeW: znHznn 0117

Job ID: 890-142C-1
PD3 : r 140C909C310

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)								
880-5C2C-c-1-D + P	+ 6Wd MPBean	99	9r								
880-5C2C-c-1-p + PD	+ 6Wd MPBean DkBie 6W	10x	92								
890-1449-c-1-c + P	+ 6Wd MPBean	9x	10C								
890-1449-c-1-u + PD	+ 6Wd MPBean DkBie 6W	9r	99								
890-142C-1	zP01	9x	10x								
890-142C-C	zP0C	98	10C								
890-142C-r	zP0r	89	100								
890-142C-4	zP04	9r	101								
890-142C-2	PS 01	9r	109								
890-142C-x	PS 0C	10C	112								
890-142C-5	PS 0r	94	99								
890-142C-8	PS 04	9x	10r								
890-142r-c-1-u + PD	+ 6Wd MPBean DkBie 6W	80	1C0								
890-142r-c-1-D + P	+ 6Wd MPBean	105	95								
LI P 880-10009F1-c	L6b I ot Wbi P6mBin	92	88								
LI P 880-10014F1-c	L6b I ot Wbi P6mBin	88	99								
LI P 880-10012F1-c	L6b I ot Wbi P6mBin	88	95								
LI PD 880-10009FC-c	L6b I ot Wbi P6mBin DkB	100	85								
LI PD 880-10012FC-c	L6b I ot Wbi P6mBin DkB	90	99								
+ u 880-10005F2-c	+ nWod ui6t a	99	10C								
+ u 880-10009F2-c	+ nWod ui6t a	119	99								
+ u 880-10014F2-c	+ nWod ui6t a	95	104								
+ u 880-10012F2-c	+ nWod ui6t a	98	10x								
+ u 880-9992F2-c	+ nWod ui6t a	101	105								

Surrogate Legend

uzu = 4-ujomofikojobnt Hnt n (Pkjj)
DzuZ = 1,4-Dfikojobnt Hnt n (Pkjj)

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										
LI PD 880-10014FC-c	L6b I ot Wbi P6mBin DkB										

Surrogate Legend

uzu = 4-ujomofikojobnt Hnt n (Pkjj)
DzuZ = 1,4-Dfikojobnt Hnt n (Pkjj)

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)								
890-1420-c-1-p + P	+ 6Wd MPBean	111	11r								
890-1420-c-1-z + PD	+ 6Wd MPBean DkBie 6W	1C5	1C9								
890-142C-1	zP01	94	100								
890-142C-C	zP0C	10r	1C0								

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Surrogate Summary

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 0117

Job ID: 890-142C-1
PD3 : r 140C909C310

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-142C-r	zP0r	105	1C0
890-142C-4	zP04	100	11C
890-142C-2	PS 01	101	11r
890-142C-x	PS 0C	101	110
890-142C-5	PS 0r	101	109
890-142C-8	PS 04	10r	11C
890-1451-c-1-I + P	+ 6WeMPBan	110	10x
890-1451-c-1-D + PD	+ 6WeMPBan DkBie 6W	11C	108
LI P 880-10r 54F-c	L6b I ot Wi P6mBin	101	10C
LI P 880-1052CF-c	L6b I ot Wi P6mBin	85	94
LI PD 880-10r 54F -c	L6b I ot Wi P6mBin DkB	109	11r
LI PD 880-1052CF -c	L6b I ot Wi P6mBin DkB	85	9C
+ u 880-10r 54F1-c	+ nWod ui6t a	11r	1C5
+ u 880-1052CF1-c	+ nWod ui6t a	1C4	14r P1y

Surrogate Legend

1I E = 1-I hiojoo. W6t n
EsU7 = o-snjBhnt Xi

pkjofe OTnt . o, I 6jiCb6d

QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100094 6-/
Matri5: Solid
/ naIPsis Batch: 10yy2

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 10009

/ naIPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ naIPFed	Dil Nac
<nt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1
Toiunt n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1
EWyibnt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1
g -Xyint n & p-Xyint n	m0G00400	A	0G00400		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1
o-Xyint n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1
Xyint ns, ToWAl	m0G00400	A	0G00400		g KF5K		10FC0FC1 14:02	10FC FC1 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*	*7+3B+3B7 74/+2*	*7+3B03B7 75/71*	*7*
794-: ,fluorobenzene (Surr)	*7+8*		*5+ - 70+*	*7+3B+3B7 74/+2*	*7+3B03B7 75/71*	*7*

Lab Sample ID: MB 880-1000f 46-/
Matri5: Solid
/ naIPsis Batch: 10yy2

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ naIPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ naIPFed	Dil Nac
<nt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1
Toiunt n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1
EWyibnt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1
g -Xyint n & p-Xyint n	m0G00400	A	0G00400		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1
o-Xyint n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1
Xyint ns, ToWAl	m0G00400	A	0G00400		g KF5K		10FC0FC1 14:10	10FC4FC1 04:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*771*		*5+ - 70+*	*7+3B+3B7 74/7+*	*7+3B43B7 +4/7D*	*7*
794-: ,fluorobenzene (Surr)	*11*		*5+ - 70+*	*7+3B+3B7 74/7+*	*7+3B43B7 +4/7D*	*7*

Lab Sample ID: LCS 880-1000f 41-/
Matri5: Solid
/ naIPsis Batch: 10yy2

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ naIPte			Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n			0G100	0G96299		g KF5K		6R	60 - 1r0		
Toiunt n			0G100	0G9629r		g KF5K		6R	60 - 1r0		
EWyibnt Hht n			0G100	0G96989		g KF5K		80	60 - 1r0		
g -Xyint n & p-Xyint n			0G200	0G32r6		g KF5K		66	60 - 1r0		
o-Xyint n			0G100	0G96949		g KF5K		69	60 - 1r0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*12*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*DD*		*5+ - 70+*

Lab Sample ID: LCSD 880-1000f 42-/
Matri5: Solid
/ naIPsis Batch: 10yy2

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ naIPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n			0G100	0G96962		g KF5K		80	60 - 1r0	2	r2

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

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

Lab Sample ID: LCSD 880-1000f 42-/
Matri5: Solid
/ nalPsis Batch: 10yy2

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
Toiunt n			0C100	0G811R		g KF5K		81	60 - 1r0	6	r2
EWyibnt Hht n			0C100	0G84R8		g KF5K		82	60 - 1r0	R	r2
g -Xyint n & p-Xyint n			0CG00	0C1R46		g KF5K		8C	60 - 1r0	6	r2
o-Xyint n			0C100	0G84R2		g KF5K		82	60 - 1r0	R	r2

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*7++*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*D5*		*5+ - 70+*

Lab Sample ID: 880-9262-/ -1-D MS
Matri5: Solid
/ nalPsis Batch: 10yy2

Client Sample ID: Matri5 Spike
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n	m0G00C00	A z1	0C101	0GRRC0	z1	g KF5K		RR	60 - 1r0		
Toiunt n	m0G00C00	A	0C101	0G61R1		g KF5K		61	60 - 1r0		
EWyibnt Hht n	m0G00C00	A	0C101	0G6R0r		g KF5K		62	60 - 1r0		
g -Xyint n & p-Xyint n	m0G0401	A	0CG0C	0C1212		g KF5K		62	60 - 1r0		
o-Xyint n	m0G00C00	A	0C101	0G6284		g KF5K		62	60 - 1r0		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*11*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*10*		*5+ - 70+*

Lab Sample ID: 880-9262-/ -1-3 MSD
Matri5: Solid
/ nalPsis Batch: 10yy2

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 1000f

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n	m0G00C00	A z1	0CG998	0G6r61		g KF5K		64	60 - 1r0	11	r2
Toiunt n	m0G00C00	A	0CG998	0G6rR9		g KF5K		64	60 - 1r0	r	r2
EWyibnt Hht n	m0G00C00	A	0CG998	0G6RCr		g KF5K		6R	60 - 1r0	0	r2
g -Xyint n & p-Xyint n	m0G0401	A	0CG00	0C1210		g KF5K		6R	60 - 1r0	0	r2
o-Xyint n	m0G00C00	A	0CG998	0G6206		g KF5K		62	60 - 1r0	1	r2

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*7+i*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*12*		*5+ - 70+*

Lab Sample ID: MB 880-1001E46-/
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
<nt Hht n	m0G00C00	A	0CG00C00		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1
Toiunt n	m0G00C00	A	0CG00C00		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1
EWyibnt Hht n	m0G00C00	A	0CG00C00		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1
g -Xyint n & p-Xyint n	m0G00400	A	0CG00400		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

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

Lab Sample ID: MB 880-1001E46-/
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
o-Xyint n	m0G00C00	A	0G00C00		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1
Xyint ns, ToWl	m0G00400	A	0G00400		g KF5K		10FC1FC1 14:r R	10FC4FC1 16:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*15*		*5+ - 70+*	*7+3873 87 74/0i*	*7+3843 87 75/2D*	*7*
794-: ,fluorobenzene (Surr)	*7+4*		*5+ - 70+*	*7+3873 87 74/0i*	*7+3843 87 75/2D*	*7*

Lab Sample ID: LCS 880-1001E41-/
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte			Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n			0G100	0G3080		g KF5K		108	60 - 1r0		
Toiunt n			0G100	0G31C1		g KF5K		11C	60 - 1r0		
EWyibnt Hht n			0G100	0G3188		g KF5K		119	60 - 1r0		
g -Xyint n & p-Xyint n			0G200	0G6r64		g KF5K		119	60 - 1r0		
o-Xyint n			0G100	0G3CC1		g KF5K		1CC	60 - 1r0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*DD*		*5+ - 70+*
794-: ,fluorobenzene (Surr)	*11*		*5+ - 70+*

Lab Sample ID: LCSD 880-1001E42-/
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n			0G100	0G98C41		g KF5K					
Toiunt n			0G100	0G9619R		g KF5K					
EWyibnt Hht n			0G100	0G99Rr R		g KF5K					
g -Xyint n & p-Xyint n			0G200	0G620C		g KF5K					
o-Xyint n			0G100	0G3110		g KF5K					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
794-: ,fluorobenzene (Surr)			

Lab Sample ID: 8f 0-1E6y-/ -1-B MSD
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n	m0G00198	A zCz1	0G999R	0G91Cr8	zCz1	g KF5K		1C	60 - 1r0	1C6	r2
Toiunt n	m0G00198	A zCz1	0G999R	0G906108	zCz1	g KF5K		6	60 - 1r0	1RC	r2
EWyibnt Hht n	m0G00198	A zCz1	0G999R	0G919C4	zCz1	g KF5K		19	60 - 1r0	112	r2
g -Xyint n & p-Xyint n	m0G0r96	A zCz1	0G199	0G941R1	zCz1	g KF5K		C0	60 - 1r0	10R	r2
o-Xyint n	m0G00198	A zCz1	0G999R	0GCC82	zCz1	g KF5K		Cr	60 - 1r0	100	r2

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

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

Lab Sample ID: 8f 0-1E6y-/ -1-B MSD
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 1001E

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	D+		5+ - 70+
794-: ,fluorobenzene (Surr)	78+		5+ - 70+

Lab Sample ID: 8f 0-1E6y-/ -1-D MS
Matri5: Solid
/ nalPsis Batch: 10yE0

Client Sample ID: Matri5 Spike
Arep xPpe: xotal4T /
Arep Batch: 1001E

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n	m0G0198	A zCz1	0G9990	0G922r 8	z1	g KF5K		22	60 - 1r0		
Toiunt n	m0G0198	A zCz1	0G9990	0GR6C4	z1	g KF5K		R8	60 - 1r0		
EWyibnt Hht n	m0G0198	A zCz1	0G9990	0G6114		g KF5K		6C	60 - 1r0		
g -Xyint n & p-Xyint n	m0G0r96	A zCz1	0G198	0G1r22	z1	g KF5K		R8	60 - 1r0		
o-Xyint n	m0G0198	A zCz1	0G9990	0GR892	z1	g KF5K		R9	60 - 1r0		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	7+5		5+ - 70+
794-: ,fluorobenzene (Surr)	15		5+ - 70+

Lab Sample ID: MB 880-100164-6-/
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 10016

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
<nt Hht n	m0G0C00	A	0G0C00		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1
Toiunt n	m0G0C00	A	0G0C00		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1
EWyibnt Hht n	m0G0C00	A	0G0C00		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1
g -Xyint n & p-Xyint n	m0G0400	A	0G0400		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1
o-Xyint n	m0G0C00	A	0G0C00		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1
Xyint ns, ToWai	m0G0400	A	0G0400		g KF5K		10FC0FC1 14:r9	10FC4FC1 02:4R	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1D		5+ - 70+	7+3B+3B7 74/01	7+3B43B7 +2/4i	7
794-: ,fluorobenzene (Surr)	7+i		5+ - 70+	7+3B+3B7 74/01	7+3B43B7 +2/4i	7

Lab Sample ID: LCS 880-100164-1-/
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T /
Arep Batch: 10016

/ nalPte			Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n			0G100	0G10R1		g KF5K		10R	60 - 1r0		
Toiunt n			0G100	0G3121		g KF5K		112	60 - 1r0		
EWyibnt Hht n			0G100	0G3196		g KF5K		1C0	60 - 1r0		
g -Xyint n & p-Xyint n			0G200	0G6C9R		g KF5K		112	60 - 1r0		
o-Xyint n			0G100	0G3168		g KF5K		118	60 - 1r0		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	DD		5+ - 70+

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QC Sample Results

I ien nt WS PU APc It . G
Ujo/n. WPeW. znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

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

Lab Sample ID: LCS 880-100164 -/
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T /
Arep Batch: 10016

Surrogate	LCS %Recovery	LCS Qualifier	Limits
794-: ,fluorobenzene (Surr)	15		5+ - 70+

Lab Sample ID: LCSD 880-100164 -/
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 10016

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n			0C100	0C1061		g KF5K		106	60 - 1r0	1	r2
Toiunt n			0C100	0C1O1R		g KF5K		11r	60 - 1r0	C	r2
EWyibnt Hht n			0C100	0C1186		g KF5K		119	60 - 1r0	1	r2
g -Xyint n & p-Xyint n			0CG00	0CGr 0R		g KF5K		112	60 - 1r0	0	r2
o-Xyint n			0C100	0C1C0r		g KF5K		1C0	60 - 1r0	C	r2

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	1+		5+ - 70+
794-: ,fluorobenzene (Surr)	11		5+ - 70+

Lab Sample ID: 8f 0-1EEf -/ -1-/ MS
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Matri5 Spike
Arep xPpe: xotal4T /
Arep Batch: 10016

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits		
<nt Hht n	m0CG0199	A	0C101	0C10R6		g KF5K		102	60 - 1r0		
Toiunt n	m0CG0199	A	0C101	0C1084		g KF5K		106	60 - 1r0		
EWyibnt Hht n	m0CG0199	A	0C101	0C112r		g KF5K		114	60 - 1r0		
g -Xyint n & p-Xyint n	m0CG0r 98	A	0CG0C	0CGC1r		g KF5K		110	60 - 1r0		
o-Xyint n	m0CG0199	A zCz1	0C101	0C1186		g KF5K		116	60 - 1r0		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	1i		5+ - 70+
794-: ,fluorobenzene (Surr)	7+8		5+ - 70+

Lab Sample ID: 8f 0-1EEf -/ -1-B MSD
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 10016

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
<nt Hht n	m0CG0199	A	0CG990	0C1012		g KF5K		10C	60 - 1r0	2	r2
Toiunt n	m0CG0199	A	0CG990	0C10Cr		g KF5K		10r	60 - 1r0	R	r2
EWyibnt Hht n	m0CG0199	A	0CG990	0C1029		g KF5K		106	60 - 1r0	9	r2
g -Xyint n & p-Xyint n	m0CG0r 98	A	0C198	0CG04r		g KF5K		10r	60 - 1r0	8	r2
o-Xyint n	m0CG0199	A zCz1	0CG990	0CG2R08	zCz1	g KF5K		2R	60 - 1r0	6C	r2

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	10		5+ - 70+
794-: ,fluorobenzene (Surr)	11		5+ - 70+

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

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

Lab Sample ID: MB 880-f f f 646-/
Matri5: Solid
/ nalPsis Batch: 10201

Client Sample ID: Method Blank
Arep xPpe: xotal4T/
Arep Batch: f f f 6

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
<nt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1
Toiunt n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1
EWyibnt Hht n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1
g -Xyint n & p-Xyint n	m0G00400	A	0G00400		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1
o-Xyint n	m0G00C00	A	0G00C00		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1
Xyint ns, ToWAl	m0G00400	A	0G00400		g KF5K		10FC0FC1 1r:44	10FCrFC1 18:1C	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*7+7*		*5+ - 70+*	*7+3B+3B7 70/44*	*7+3B03B7 7D/78*	*7*
794-: ,fluorobenzene (Surr)	*7+5*		*5+ - 70+*	*7+3B+3B7 70/44*	*7+3B03B7 7D/78*	*7*

Method: 8016B TM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-10y9E41-/
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Method Blank
Arep xPpe: xotal4T/
Arep Batch: 10y9E

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m20GG	A	20GG		g KF5K		10FC2FC1 10:09	10FC2FC1 1C:Cr	1
Densni) at Kn 7 jKat e s vi7 dnj l 10-l C8f	m20GG	A	20GG		g KF5K		10FC2FC1 10:09	10FC2FC1 1C:Cr	1
7 li) at Kn 7 jKat e s vi7 dnj l C8-l r Rf	m20GG	A	20GG		g KF5K		10FC2FC1 10:09	10FC2FC1 1C:Cr	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*770*		*5+ - 70+*	*7+3B23B7 7+/+1*	*7+3B23B7 78/80*	*7*
o-Terphenyl	*785*		*5+ - 70+*	*7+3B23B7 7+/+1*	*7+3B23B7 78/80*	*7*

Lab Sample ID: LCS 880-10y9E42-/
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T/
Arep Batch: 10y9E

/ nalPte			Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits		
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10			1000	8RRG		g KF5K		86	60 - 1r0		
Densni) at Kn 7 jKat e s vi7 dnj l 10-l C8f			1000	100R		g KF5K		101	60 - 1r0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*7+7*		*5+ - 70+*
o-Terphenyl	*7+8*		*5+ - 70+*

Lab Sample ID: LCSD 880-10y9E4y-/
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T/
Arep Batch: 10y9E

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10			1000	8r8GC		g KF5K		84	60 - 1r0	r	C0

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

Method: 8016B TM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-10y9E4y-/
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 10y9E

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f			1000	11CR		g KF5 K		11r	60 - 1r 0	11	C0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*7+1*		*5+ - 70+*
o-Terphenyl	*770*		*5+ - 70+*

Lab Sample ID: 8f 0-1E91-/ -1-C MS
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Matri5 Spike
Arep xPpe: xotal4T /
Arep Batch: 10y9E

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits		
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m49C9	A	996	9Rr C8		g KF5 K		96	60 - 1r 0		
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f	m49C9	A	996	9r r C9		g KF5 K		91	60 - 1r 0		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-Chlorooctane	*77+*		*5+ - 70+*
o-Terphenyl	*7+i*		*5+ - 70+*

Lab Sample ID: 8f 0-1E91-/ -1-D MSD
Matri5: Solid
/ nalPsis Batch: 10y, 1

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 10y9E

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m49C9	A	1000	1019		g KF5 K		10C	60 - 1r 0	R	C0
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f	m49C9	A	1000	964C		g KF5 K		94	60 - 1r 0	4	C0

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-Chlorooctane	*778*		*5+ - 70+*
o-Terphenyl	*7+D*		*5+ - 70+*

Lab Sample ID: MB 880-109624l-/
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Method Blank
Arep xPpe: xotal4T /
Arep Batch: 10962

/ nalPte	MB Result	MB QualiUer	RL		z nit	D	Arepared	/ nalPFed	Dil Nac
3 asoie n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m20C9	A	20C9		g KF5 K		10FC6FC1 1r :40	10FC6FC1 19:C8	1
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f	m20C9	A	20C9		g KF5 K		10FC6FC1 1r :40	10FC6FC1 19:C8	1
7 li) at Kn 7 jKat e s v7 dnj l C8-l r Rf	m20C9	A	20C9		g KF5 K		10FC6FC1 1r :40	10FC6FC1 19:C8	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
7-Chlorooctane	*784*		*5+ - 70+*	*7+3853B7 70/4+*	*7+3853B7 71/8D*	*7*
o-Terphenyl	*740*	*S76*	*5+ - 70+*	*7+3853B7 70/4+*	*7+3853B7 71/8D*	*7*

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

Method: 8016B TM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109624-/
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Lab Control Sample
Arep xPpe: xotal4T /
Arep Batch: 10962

/ nalPte			Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits		
3 asoie t n) at Kn 7 jKat e s v3) 7 f-l R-l 10			1000	9C6C4		g KF5 K		9r	60 - 1r 0		
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f			1000	9C0C6		g KF5 K		9C	60 - 1r 0		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7-Chlorooctane	*D5*		*5+ - 70+*
o-Terphenyl	*14*		*5+ - 70+*

Lab Sample ID: LCSD 880-109624y-/
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Lab Control Sample Dup
Arep xPpe: xotal4T /
Arep Batch: 10962

/ nalPte			Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
3 asoie t n) at Kn 7 jKat e s v3) 7 f-l R-l 10			1000	1112		g KF5 K		111	60 - 1r 0	18	C0
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f			1000	660C9		g KF5 K		66	60 - 1r 0	18	C0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
7-Chlorooctane	*D5*		*5+ - 70+*
o-Terphenyl	*18*		*5+ - 70+*

Lab Sample ID: 8f 0-1E60-/ -1-3 MS
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Matri5 Spike
Arep xPpe: xotal4T /
Arep Batch: 10962

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits		
3 asoie t n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m49C9	A	996	119C		g KF5 K		1C0	60 - 1r 0		
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f	R2C3		996	1092		g KF5 K		10r	60 - 1r 0		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
7-Chlorooctane	*777*		*5+ - 70+*
o-Terphenyl	*770*		*5+ - 70+*

Lab Sample ID: 8f 0-1E60-/ -1-N MSD
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T /
Arep Batch: 10962

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
3 asoie t n) at Kn 7 jKat e s v3) 7 f-l R-l 10	m49C9	A	1000	1CC1		g KF5 K		1CC	60 - 1r 0	C	C0
Densni) at Kn 7 jKat e s v7 dnj l 10-l C8f	R2C3		1000	1Cr r		g KF5 K		116	60 - 1r 0	1C	C0

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
7-Chlorooctane	*785*		*5+ - 70+*

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

Method: 8016B TM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 8f 0-1E60-/ -1-N MSD
Matri5: Solid
/ nalPsis Batch: 10, , 1

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: xotal4T/
Arep Batch: 10962

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*781*		*5+ - 70+*

Method: y00.0 - / nions7Ion ChromatographP

Lab Sample ID: MB 880-10y014l-/
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Method Blank
Arep xPpe: Soluble

/ nalPte	MB Result	MB QualiUer	RL	z nit	D	Arepared	/ nalPFed	Dil Nac
I hioje(n	m2C90	A	2C90	g KF5K			10RC2RC1 C1:11	1

Lab Sample ID: LCS 880-10y014l2-/
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Lab Control Sample
Arep xPpe: Soluble

/ nalPte	Spike / dded	LCS Result	LCS QualiUer	z nit	D	%Rec	%Rec. Limits
I hioje(n	C20	C29GC		g KF5K		104	90 - 110

Lab Sample ID: LCSD 880-10y014y-/
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Lab Control Sample Dup
Arep xPpe: Soluble

/ nalPte	Spike / dded	LCSD Result	LCSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
I hioje(n	C20	C2RC2		g KF5K		10r	90 - 110	1	C0

Lab Sample ID: 880-9yEy-/ -21-B MS
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Matri5 Spike
Arep xPpe: Soluble

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits
I hioje(n	6290		C480	10100		g KF5K		101	90 - 110

Lab Sample ID: 880-9yEy-/ -21-C MSD
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: Soluble

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
I hioje(n	6290		C480	10080		g KF5K		100	90 - 110	0	C0

Lab Sample ID: 8f 0-1E61-/ -2-C MS
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Matri5 Spike
Arep xPpe: Soluble

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MS Result	MS QualiUer	z nit	D	%Rec	%Rec. Limits
I hioje(n	r RC		1CR0	1608		g KF5K		106	90 - 110

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QC Sample Results

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011B

Job ID: 890-142C-1
PD3 : r 140C909C310

Method: y00.0 - / nions7Ion ChromatographP (Continued)

Lab Sample ID: 8f 0-1E61-/ -2-D MSD
Matri5: Solid
/ nalPsis Batch: 10, 21

Client Sample ID: Matri5 Spike Duplicate
Arep xPpe: Soluble

/ nalPte	Sample Result	Sample QualiUer	Spike / dded	MSD Result	MSD QualiUer	z nit	D	%Rec	%Rec. Limits	RAD	RAD Limit
I hioje(n	r RC		1CR0	1R91		g KF5K		102	90 - 110	1	C0

QC Association Summary

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011d

Job ID: 890-142C-1
PD3 : r 140C909C310

GC VOA

Prep Batch: 9995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9992F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	20r 2	

Prep Batch: 10007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1000NF2-c	Mn\Wo5 Biht a	kowFTc	Poie5	20r 2	

Prep Batch: 10009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10009F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	20r 2	
7I P 880-10009F1-c	7hb I ot Wi PhL min	kowFTc	Poie5	20r 2	
7I PD 880-10009FC-c	7hb I ot Wi PhL min Dpm	kowFTc	Poie5	20r 2	
880-NC2C-c-1-D MP	MhWeu Pmean	kowFTc	Poie5	20r 2	
880-NC2C-c-1-x MPD	MhWeu Pmean Dpmie hW	kowFTc	Poie5	20r 2	

Prep Batch: 10014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kowFTc	Poie5	20r 2	
890-142C-C	zP0C	kowFTc	Poie5	20r 2	
890-142C-r	zP0r	kowFTc	Poie5	20r 2	
890-142C-4	zP04	kowFTc	Poie5	20r 2	
MB 880-10014F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	20r 2	
7I P 880-10014F1-c	7hb I ot Wi PhL min	kowFTc	Poie5	20r 2	
7I PD 880-10014FC-c	7hb I ot Wi PhL min Dpm	kowFTc	Poie5	20r 2	
890-142r-c-1-B MPD	MhWeu Pmean Dpmie hW	kowFTc	Poie5	20r 2	
890-142r-c-1-D MP	MhWeu Pmean	kowFTc	Poie5	20r 2	

Prep Batch: 10015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-N	PS 0r	kowFTc	Poie5	20r 2	
890-142C-8	PS 04	kowFTc	Poie5	20r 2	
MB 880-10012F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	20r 2	
7I P 880-10012F1-c	7hb I ot Wi PhL min	kowFTc	Poie5	20r 2	
7I PD 880-10012FC-c	7hb I ot Wi PhL min Dpm	kowFTc	Poie5	20r 2	
890-1449-c-1-c MP	MhWeu Pmean	kowFTc	Poie5	20r 2	
890-1449-c-1-B MPD	MhWeu Pmean Dpmie hW	kowFTc	Poie5	20r 2	

Prep Batch: 10199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-2	PS 01	kowFTc	Poie5	20r 2	
890-142C-E	PS 0C	kowFTc	Poie5	20r 2	

Analysis Batch: 10201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-N	PS 0r	kowFTc	Poie5	80C1B	10012
890-142C-8	PS 04	kowFTc	Poie5	80C1B	10012
MB 880-10012F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	80C1B	10012
MB 880-9992F2-c	Mn\Wo5 Biht a	kowFTc	Poie5	80C1B	9992
7I P 880-10012F1-c	7hb I ot Wi PhL min	kowFTc	Poie5	80C1B	10012
7I PD 880-10012FC-c	7hb I ot Wi PhL min Dpm	kowFTc	Poie5	80C1B	10012
890-1449-c-1-c MP	MhWeu Pmean	kowFTc	Poie5	80C1B	10012
890-1449-c-1-B MPD	MhWeu Pmean Dpmie hW	kowFTc	Poie5	80C1B	10012

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QC Association Summary

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011d

Job ID: 890-142C-1
PD3 : r 140C909C310

GC VOA

Analysis Batch: 10332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-2	PS 01	kWiFTc	Poie5	80C1B	10199
890-142C-E	PS 0C	kWiFTc	Poie5	80C1B	10199
MB 880-1000N2-c	MnW5o Biht a	kWiFTc	Poie5	80C1B	1000N
MB 880-10009F2-c	MnW5o Biht a	kWiFTc	Poie5	80C1B	10009
7l P 880-10009F1-c	7hb l ot Wi PhL min	kWiFTc	Poie5	80C1B	10009
7l PD 880-10009FC-c	7hb l ot Wi PhL min Dpm	kWiFTc	Poie5	80C1B	10009
880-NC2C-c-1-D MP	MhWeu Pmean	kWiFTc	Poie5	80C1B	10009
880-NC2C-c-1-x MPD	MhWeu Pmean Dpmie hW	kWiFTc	Poie5	80C1B	10009

Analysis Batch: 10340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kWiFTc	Poie5	80C1B	10014
890-142C-C	zP0C	kWiFTc	Poie5	80C1B	10014
890-142C-r	zP0r	kWiFTc	Poie5	80C1B	10014
890-142C-4	zP04	kWiFTc	Poie5	80C1B	10014
MB 880-10014F2-c	MnW5o Biht a	kWiFTc	Poie5	80C1B	10014
7l P 880-10014F1-c	7hb l ot Wi PhL min	kWiFTc	Poie5	80C1B	10014
7l PD 880-10014FC-c	7hb l ot Wi PhL min Dpm	kWiFTc	Poie5	80C1B	10014
890-142r-c-1-B MPD	MhWeu Pmean Dpmie hW	kWiFTc	Poie5	80C1B	10014
890-142r-c-1-D MP	MhWeu Pmean	kWiFTc	Poie5	80C1B	10014

Analysis Batch: 10619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kWiFTc	Poie5	kWi Bkxs	
890-142C-C	zP0C	kWiFTc	Poie5	kWi Bkxs	
890-142C-r	zP0r	kWiFTc	Poie5	kWi Bkxs	
890-142C-4	zP04	kWiFTc	Poie5	kWi Bkxs	
890-142C-2	PS 01	kWiFTc	Poie5	kWi Bkxs	
890-142C-E	PS 0C	kWiFTc	Poie5	kWi Bkxs	
890-142C-N	PS 0r	kWiFTc	Poie5	kWi Bkxs	
890-142C-8	PS 04	kWiFTc	Poie5	kWi Bkxs	

GC Semi VOA

Analysis Batch: 10361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kWiFTc	Poie5	8012B TM	10rN4
MB 880-10rN4F1-c	MnW5o Biht a	kWiFTc	Poie5	8012B TM	10rN4
7l P 880-10rN4FC-c	7hb l ot Wi PhL min	kWiFTc	Poie5	8012B TM	10rN4
7l PD 880-10rN4Fr-c	7hb l ot Wi PhL min Dpm	kWiFTc	Poie5	8012B TM	10rN4
890-14N1-c-1-l MP	MhWeu Pmean	kWiFTc	Poie5	8012B TM	10rN4
890-14N1-c-1-D MPD	MhWeu Pmean Dpmie hW	kWiFTc	Poie5	8012B TM	10rN4

Prep Batch: 10374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kWiFTc	Poie5	8012TM Ujnm	
MB 880-10rN4F1-c	MnW5o Biht a	kWiFTc	Poie5	8012TM Ujnm	
7l P 880-10rN4FC-c	7hb l ot Wi PhL min	kWiFTc	Poie5	8012TM Ujnm	
7l PD 880-10rN4Fr-c	7hb l ot Wi PhL min Dpm	kWiFTc	Poie5	8012TM Ujnm	
890-14N1-c-1-l MP	MhWeu Pmean	kWiFTc	Poie5	8012TM Ujnm	
890-14N1-c-1-D MPD	MhWeu Pmean Dpmie hW	kWiFTc	Poie5	8012TM Ujnm	

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QC Association Summary

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 011d

Job ID: 890-142C-1
PD3 : r 140C909C310

GC Semi VOA

Analysis Batch: 10533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	kowiFTc	Poie5	8012 TM	

Analysis Batch: 10661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-C	zP0C	kowiFTc	Poie5	8012B TM	10N2C
890-142C-r	zP0r	kowiFTc	Poie5	8012B TM	10N2C
890-142C-4	zP04	kowiFTc	Poie5	8012B TM	10N2C
890-142C-2	PS 01	kowiFTc	Poie5	8012B TM	10N2C
890-142C-E	PS 0C	kowiFTc	Poie5	8012B TM	10N2C
890-142C-N	PS 0r	kowiFTc	Poie5	8012B TM	10N2C
890-142C-8	PS 04	kowiFTc	Poie5	8012B TM	10N2C
MB 880-10N2CF1-c	MnWo5 Biht a	kowiFTc	Poie5	8012B TM	10N2C
7l P 880-10N2CFC-c	7hb l ot Wi PhL min	kowiFTc	Poie5	8012B TM	10N2C
7l PD 880-10N2CFr-c	7hb l ot Wi PhL min Dpm	kowiFTc	Poie5	8012B TM	10N2C
890-1420-c-1-x MP	MhWeu Pmean	kowiFTc	Poie5	8012B TM	10N2C
890-1420-c-1-z MPD	MhWeu Pmean Dpmie hW	kowiFTc	Poie5	8012B TM	10N2C

Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-C	zP0C	kowiFTc	Poie5	8012 TM	
890-142C-r	zP0r	kowiFTc	Poie5	8012 TM	
890-142C-4	zP04	kowiFTc	Poie5	8012 TM	
890-142C-2	PS 01	kowiFTc	Poie5	8012 TM	
890-142C-E	PS 0C	kowiFTc	Poie5	8012 TM	
890-142C-N	PS 0r	kowiFTc	Poie5	8012 TM	
890-142C-8	PS 04	kowiFTc	Poie5	8012 TM	

Prep Batch: 10752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-C	zP0C	kowiFTc	Poie5	8012TM Ujnm	
890-142C-r	zP0r	kowiFTc	Poie5	8012TM Ujnm	
890-142C-4	zP04	kowiFTc	Poie5	8012TM Ujnm	
890-142C-2	PS 01	kowiFTc	Poie5	8012TM Ujnm	
890-142C-E	PS 0C	kowiFTc	Poie5	8012TM Ujnm	
890-142C-N	PS 0r	kowiFTc	Poie5	8012TM Ujnm	
890-142C-8	PS 04	kowiFTc	Poie5	8012TM Ujnm	
MB 880-10N2CF1-c	MnWo5 Biht a	kowiFTc	Poie5	8012TM Ujnm	
7l P 880-10N2CFC-c	7hb l ot Wi PhL min	kowiFTc	Poie5	8012TM Ujnm	
7l PD 880-10N2CFr-c	7hb l ot Wi PhL min Dpm	kowiFTc	Poie5	8012TM Ujnm	
890-1420-c-1-x MP	MhWeu Pmean	kowiFTc	Poie5	8012TM Ujnm	
890-1420-c-1-z MPD	MhWeu Pmean Dpmie hW	kowiFTc	Poie5	8012TM Ujnm	

HPLC/IC

Leach Batch: 10301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	Poipbin	Poie5	DI 7nh. 6	
890-142C-C	zP0C	Poipbin	Poie5	DI 7nh. 6	
890-142C-r	zP0r	Poipbin	Poie5	DI 7nh. 6	
890-142C-4	zP04	Poipbin	Poie5	DI 7nh. 6	
890-142C-2	PS 01	Poipbin	Poie5	DI 7nh. 6	

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QC Association Summary

I ien nt WS PU APc It . G
Ujo/n. WPeW: znHznn 011d

Job ID: 890-142C-1
PD3 : r 140C909C310

HPLC/IC (Continued)

Leach Batch: 10301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-E	PS 0C	Poipbin	Poie5	DI 7nh. 6	
890-142C-N	PS 0r	Poipbin	Poie5	DI 7nh. 6	
890-142C-8	PS 04	Poipbin	Poie5	DI 7nh. 6	
MB 880-10r 01F1-c	MnW5o5 Biht a	Poipbin	Poie5	DI 7nh. 6	
7I P 880-10r 01FC-c	7hb I ot Wi PhL min	Poipbin	Poie5	DI 7nh. 6	
7I PD 880-10r 01Fr -c	7hb I ot Wi PhL min Dpm	Poipbin	Poie5	DI 7nh. 6	
880-Nr 4r -c -C1-B MP	MhWeu Pmean	Poipbin	Poie5	DI 7nh. 6	
880-Nr 4r -c -C1-I MPD	MhWeu Pmean Dpmie hW	Poipbin	Poie5	DI 7nh. 6	
890-1421-c -C-I MP	MhWeu Pmean	Poipbin	Poie5	DI 7nh. 6	
890-1421-c -C-D MPD	MhWeu Pmean Dpmie hW	Poipbin	Poie5	DI 7nh. 6	

Analysis Batch: 10621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-142C-1	zP01	Poipbin	Poie5	r 00G	10r 01
890-142C-C	zP0C	Poipbin	Poie5	r 00G	10r 01
890-142C-r	zP0r	Poipbin	Poie5	r 00G	10r 01
890-142C-4	zP04	Poipbin	Poie5	r 00G	10r 01
890-142C-2	PS 01	Poipbin	Poie5	r 00G	10r 01
890-142C-E	PS 0C	Poipbin	Poie5	r 00G	10r 01
890-142C-N	PS 0r	Poipbin	Poie5	r 00G	10r 01
890-142C-8	PS 04	Poipbin	Poie5	r 00G	10r 01
MB 880-10r 01F1-c	MnW5o5 Biht a	Poipbin	Poie5	r 00G	10r 01
7I P 880-10r 01FC-c	7hb I ot Wi PhL min	Poipbin	Poie5	r 00G	10r 01
7I PD 880-10r 01Fr -c	7hb I ot Wi PhL min Dpm	Poipbin	Poie5	r 00G	10r 01
880-Nr 4r -c -C1-B MP	MhWeu Pmean	Poipbin	Poie5	r 00G	10r 01
880-Nr 4r -c -C1-I MPD	MhWeu Pmean Dpmie hW	Poipbin	Poie5	r 00G	10r 01
890-1421-c -C-I MP	MhWeu Pmean	Poipbin	Poie5	r 00G	10r 01
890-1421-c -C-D MPD	MhWeu Pmean Dpmie hW	Poipbin	Poie5	r 00G	10r 01

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Lab Chronicle

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011G

Job ID: 890-142r -1
SD3 : p140r 909.110

Client Sample ID: FS01
Date Collected: 10/18/21 14:10
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			2.0r a	2 g L	10014	10Fr 1Fr 1 14:pX	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	80r 1s		1	2 g L	2 g L	10p40	10Fr 2Fr 1 01:r 1	6 B	ENM 6 ID
7otTIRMA	AnTlnyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	8012 M6		1			102pp	10Fr 2Fr 1 19:r p	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.0r a	10 g L	10pR4	10Fr 2Fr 1 10:09	AJ	ENM 6 ID
7otTIRMA	AnTlnyiy	8012s M6		1			10pX1	10Fr 2Fr 1 14:r 8	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlnyiy	p00.0		2			10Xr 1	10Fr 2Fr 1 r p:12	CG	ENM 6 ID

Client Sample ID: FS02
Date Collected: 10/18/21 14:12
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			2.0r a	2 g L	10014	10Fr 1Fr 1 14:pX	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	80r 1s		1	2 g L	2 g L	10p40	10Fr 2Fr 1 01:4r	6 B	ENM 6 ID
7otTIRMA	AnTlnyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	8012 M6		1			10XRX	10Fr RFr 1 11:09	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.0p a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlnyiy	8012s M6		1			10XX1	10Fr 8Fr 1 00:21	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlnyiy	p00.0		10			10Xr 1	10Fr 2Fr 1 r p:pp	CG	ENM 6 ID

Client Sample ID: FS03
Date Collected: 10/18/21 14:15
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			4.9X a	2 g L	10014	10Fr 1Fr 1 14:pX	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	80r 1s		1	2 g L	2 g L	10p40	10Fr 2Fr 1 0r :0r	6 B	ENM 6 ID
7otTIRMA	AnTlnyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	8012 M6		1			10XRX	10Fr RFr 1 11:09	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.0p a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlnyiy	8012s M6		1			10XX1	10Fr 8Fr 1 01:11	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2.0r a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlnyiy	p00.0		10			10Xr 1	10Fr 2Fr 1 r p:p8	CG	ENM 6 ID

Client Sample ID: FS04
Date Collected: 10/18/21 16:05
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			2.00 a	2 g L	10014	10Fr 1Fr 1 14:pX	KL	ENM 6 ID
7otTIRMA	AnTlnyiy	80r 1s		1	2 g L	2 g L	10p40	10Fr 2Fr 1 0r :r p	6 B	ENM 6 ID
7otTIRMA	AnTlnyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID

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Lab Chronicle

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011G

Job ID: 890-142r -1
SD3 : p140r 909.110

Client Sample ID: FS04

Date Collected: 10/18/21 16:05
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	AnTlmyiy	8012 M6		1			10XRX	10Fr RFr 1 11:09	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.0p a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlmyiy	8012s M6		1			10XX1	10Fr 8Fr 1 01:p0	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2.02 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlmyiy	p00.0		1			10Xr 1	10Fr 2Fr 1 r p:44	CG	ENM 6 ID

Client Sample ID: SW01

Date Collected: 10/18/21 14:50
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			2.0r a	2 g L	10199	10Fr r Fr 1 09:42	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	80r 1s		1	2 g L	2 g L	10ppr	10Fr 4Fr 1 11:22	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	8012 M6		1			10XRX	10Fr RFr 1 11:09	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.0p a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlmyiy	8012s M6		1			10XX1	10Fr 8Fr 1 01:20	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2.0p a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlmyiy	p00.0		1			10Xr 1	10Fr 2Fr 1 r p:20	CG	ENM 6 ID

Client Sample ID: SW02

Date Collected: 10/18/21 15:46
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			2.0r a	2 g L	10199	10Fr r Fr 1 09:42	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	80r 1s		1	2 g L	2 g L	10ppr	10Fr 4Fr 1 1r :1X	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	8012 M6		1			10XRX	10Fr RFr 1 11:09	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.00 a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlmyiy	8012s M6		1			10XX1	10Fr 8Fr 1 0r :10	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			2.01 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlmyiy	p00.0		1			10Xr 1	10Fr 2Fr 1 r p:2X	CG	ENM 6 ID

Client Sample ID: SW03

Date Collected: 10/18/21 14:54
Date Received: 10/19/21 15:53

Lab Sample ID: 890-1452-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTIRMA	Pje5	20p2			4.99 a	2 g L	10012	10Fr 0Fr 1 14:p9	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	80r 1s		1	2 g L	2 g L	10r 01	10Fr 4Fr 1 1p:p0	6 B	ENM 6 ID
7otTIRMA	AnTlmyiy	7otTI s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTIRMA	AnTlmyiy	8012 M6		1			10XRX	10Fr RFr 1 1r :1p	AJ	ENM 6 ID
7otTIRMA	Pje5	8012M6 Pje5			10.04 a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTIRMA	AnTlmyiy	8012s M6		1			10XX1	10Fr 8Fr 1 0r :p0	AJ	ENM 6 ID

Nujo+ny Eencof CTjlybT,

Lab Chronicle

Client: WSP USA Inc.
Pjo/ectFSite: zeHzee 011G

Job ID: 890-142r -1
SD3 : p140r 909.110

Client Sample ID: SW03

Lab Sample ID: 890-1452-7

Date Collected: 10/18/21 14:54
Matrix: Solid
Date Received: 10/19/21 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	LeTch	DI LeTch			4.92 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlmyiy	p00.0		1			10Xr 1	10Fr XFr 1 00:0r	CG	ENM 6 ID

Client Sample ID: SW04

Lab Sample ID: 890-1452-8

Date Collected: 10/18/21 16:12
Matrix: Solid
Date Received: 10/19/21 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7otTlRMA	Pje5	20p2			2.0p a	2 g L	10012	10Fr 0Fr 1 14:p9	KL	ENM 6 ID
7otTlRMA	AnTlmyiy	80r 1s		1	2 g L	2 g L	10r 01	10Fr 4Fr 1 1p:20	6 B	ENM 6 ID
7otTlRMA	AnTlmyiy	7otTl s 7NE		1			10X19	10Fr XFr 1 12:1r	KL	ENM 6 ID
7otTlRMA	AnTlmyiy	8012 M6		1			10XRX	10Fr RFr 1 1r :1p	AJ	ENM 6 ID
7otTlRMA	Pje5	8012M6 Pje5			10.0r a	10 g L	10R2r	10Fr RFr 1 1p:40	D6	ENM 6 ID
7otTlRMA	AnTlmyiy	8012s M6		1			10XX1	10Fr 8Fr 1 0r :20	AJ	ENM 6 ID
Soluble	LeTch	DI LeTch			4.98 a	20 g L	10p01	10Fr r Fr 1 1R4X	SC	ENM 6 ID
Soluble	AnTlmyiy	p00.0		1			10Xr 1	10Fr XFr 1 00:08	CG	ENM 6 ID

Laboratory References:

ENM 6 ID d Nujo=iny Eencof 6 i, ITn, f 1r 11 W. zloji, T Avef 6 i, ITn, f 7E R9R01f 7NL (4pr)R04-2440

Nujo=iny Eencof CTjlybT,

Accreditation/Certification Summary

Client: WSP USA Inc.
Pjo/ectfSite: zeHzee 011G

Job ID: 890-142r -1
SD3 : s140r 909.110

Laboratory: Eurofins Xenco, Midland

Unlehh otwejd ihe note, ayll ynylf teh voj twih lybojytojf d eje coueje, Tn, ej eycwyccje, itytionFcejtivicytion belod .

Authority	Program	Identification Number	Expiration Date
xeNyh	EL7AP	x104604400-r 1-r r	0g-s0-r r

xwe vollod inp ynylf teh yje inclT, e, in twih jemojtabTt twe lybojytojf ih not cejtivie, bf twe pouejninp yTtwojitf . xwih liht Myf inclT, e ynylf teh voj d wicw twe ypencf , oeh not owej cejtivicytion .

Anylf hih 5 etwo,	Pjem5 etwo,	5 ytjiN	Anylf te
8012 E5		Soli,	xotyl xPG
xotyl BxLX		Soli,	xotyl BxLX

L Tjovinh XencoaCyjlhby,

Method Summary

I ient WS PU APc It . G
Ujo/n. WPeW: znHznn 0116

Job ID: 890-142C-1
PD3 : r 140C909C310

Method	Method Description	Protocol	Laboratory
80C1V	aoiOAh g jmOt e I op uodt s( )3 I X	PS 84B	ENM T ID
LoW0 VLNE	LoW0 VLNE I Oi. diOAbt	Lc5 Pg U	ENM T ID
8012 MT	De(ni ROt mn g jmOt e( )DRg X)3 I X	PS 84B	ENM T ID
8012V MT	De(ni ROt mn g jmOt e( )DRg X)3 I X	PS 84B	ENM T ID
r 00G	ct e t(, lot I hjop OWmjOuhy	T I cS S	ENM T ID
20r 2	I io(ns Py(Wp Udjmn Ot s LjOu	PS 84B	ENM T ID
8012MT Ujnu	T e jonxWO WAt	PS 84B	ENM T ID
DI 5nO h	Dne t e-hs S OWj 5nO he mUjo. nsdjn	cPLT	ENM T ID

Protocol References:

cPLT = cPLT It Wjt OAbt Oi

T I cS S = "T nWos(zoj I hnp e Oi ct Oy(e g f S OWj ct s S O(W(", NUc-B00F4-79-0C0, T Oj. h 198r ct s Pdb(nqdnt WRnve(et (G

PS 84B = "Ln(WT nWos(zoj NvOidOAmPoies S O(W, Uhy(e OiF hnp e Oi T nWos(", Lhes NseAbt , Movnp bnj 198B ct s IW AusOW(G

Lc5 Pg U = Ln(Wp nje O5Obo jOWje n(, PW0t sOjs g unjOAmUjo. nsdjn

Laboratory References:

ENM T ID = Ndjofe t (Ent . o, T esiOt s, 1C11 S Gzioje sOcvn, T esiOt s, LE 79701, LN5)4r CX704-2440

Ndjofe t (Ent . o, I Oji(bOs

Sample Summary

Client: WSP USA Inc.
Project/Site: Fez Fee 011H

Job ID: 890-1452-1
SDG: 31402909.110

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1452-1	FS01	Solid	10/18/21 14:10	10/19/21 15:53	4
890-1452-2	FS02	Solid	10/18/21 14:12	10/19/21 15:53	4
890-1452-3	FS03	Solid	10/18/21 14:15	10/19/21 15:53	4
890-1452-4	FS04	Solid	10/18/21 16:05	10/19/21 15:53	4
890-1452-5	SW01	Solid	10/18/21 14:50	10/19/21 15:53	0 - 4
890-1452-6	SW02	Solid	10/18/21 15:46	10/19/21 15:53	0 - 4
890-1452-7	SW03	Solid	10/18/21 14:54	10/19/21 15:53	0 - 4
890-1452-8	SW04	Solid	10/18/21 16:12	10/19/21 15:53	0 - 4

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page ____ of ____

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

ANALYSIS REQUEST

Pres. Code | Parameters: TPH (EPA 8015) | BTEX (EPA 8021) | Chlorides (EPA 300)

890-1452 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
FS01	S	10/8/21	1410	4'			
FS02			1412	4'			
FS03			1415	4'			
FS04			1605	4'			
SW01			1450	0-4'			
SW02			1546	0-4'			
SW03			1454	0-4'			
SW04			1612	0-4'			

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 SiO_2 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 Hg: 1631 / 245.1 / 7470 / 7471

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

Revised Date: 08/25/2020 Rev. 2020.2

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: 890-471 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 #: 890-1452-1
Address: 1211 W Florida Ave	Due Date Requested: 10/25/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Fez Fee 011H	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:										
FS01 (890-1452-1)	10/18/21	14 10 Mountain		Solid			X	X	X	X	X	1	
FS02 (890-1452-2)	10/18/21	14 12 Mountain		Solid			X	X	X	X	X	1	
FS03 (890-1452-3)	10/18/21	14 15 Mountain		Solid			X	X	X	X	X	1	
FS04 (890-1452-4)	10/18/21	16 05 Mountain		Solid			X	X	X	X	X	1	
SW01 (890-1452-5)	10/18/21	14 50 Mountain		Solid			X	X	X	X	X	1	
SW02 (890-1452-6)	10/18/21	15 46 Mountain		Solid			X	X	X	X	X	1	
SW03 (890-1452-7)	10/18/21	14 54 Mountain		Solid			X	X	X	X	X	1	
SW04 (890-1452-8)	10/18/21	16 12 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: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Clue Cruz 10.20.21			JKramek	10 21 21	
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1015	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: 10/17

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-145D-1
SG3 Number: 2140D909.110

Login Number: 1452
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSGs	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: 890-145D-1
SG3 Number: 2140D909.110

Login Number: 1452
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/21/21 10:24 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	1.6/1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSGs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ATTACHMENT 4: FINAL 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	NAPP2118732077
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688-9057
Contact email	Kelsy.Waggaman@conocophillips.com	Incident # *(assigned by OCD)*	NAPP2118732077
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.15092 Longitude -103.37879

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Fez Fee 011H	Site Type	Flow Line
Date Release Discovered	June 22, 2021	API# *(if applicable)*	Quail Ranch, LLC

Unit Letter	Section	Township	Range	County
D	09	25S	35E	Lea

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) 8	Volume Recovered (bbls) 5
	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

The release was caused by a hole in the riser due to internal corrosion.
The release was in the Pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2118732077
District RP	
Facility ID	
Application ID	

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: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 7/6/2021

email: Brittany.Esparza@conocophillips.com Telephone: (432) 221-0398

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form

Facility Name & Number:	FEZ FEE 11H
Asset Area:	
Release Discovery Date & Time:	6/22/2021
Release Type:	
Provide any known details about the event:	

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	36.0	12.0	3.00	3	432.000	0.083	6.408	0.004	6.435
Rectangle B	12.0	9.0	2.00	3	108.000	0.056	1.068	0.003	1.071
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
								Total Volume Release:	7.506

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2118732077
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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2118732077
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: Kelsy Waggaman Title: Environmental Coordinator

Signature: Kelsy Waggaman Date: 11/11/21

email: kelsy.waggaman@conocophillips.com Telephone: (505) 577-9071

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2118732077
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Kelsy Waggaman Title: Environmental Coordinator

Signature: Kelsy Waggaman Date: 11/11/21

email: kelsy.waggaman@conocophillips.com Telephone: (505) 577-9071

OCD Only

Received by: Chad Hensley Date: 12/09/2021

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

Closure Approved by: Chad Hensley Date: 12/09/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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 61717

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 61717
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/9/2021