



August 30, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
Macho Nacho State Com 010H
Incident Number NAPP2132756247
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Macho Nacho State Com 010H (Site, Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2132756247.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 07, Township 24 South, Range 33 East, in Lea County, New Mexico (32.22551° N, 103.61708° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On November 10, 2021, a heater swamped out, resulting in the release of approximately 0.5 barrels (bbls) of crude oil out of the flare, which also resulted in a fire on the well pad. No fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on November 10, 2021 and submitted a Release Notification Form C-141 (Form C-141) on November 23, 2021. The release was assigned Incident Number NAPP2132756247.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

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-03565-POD 3, located approximately 8,134 feet northeast of the Site. The groundwater well has a reported depth to

groundwater greater than 100 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,639 feet above mean sea level (amsl), which is approximately 25 feet higher in elevation than the Site. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 2.18 miles northeast 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.

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 criteria of 600 mg/kg chloride 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 November 29, 2021, WSP Inc. (WSP), a third-party environmental consultant, completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS02 and SS05, collected within the release extent, indicated TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary samples SS01, SS03, SS04, collected within the release extent, and SS06 through SS09, collected outside of the release extent, indicated benzene, BTEX, TPH-

GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and confirmed the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results for preliminary soil samples SS02 and SS05, additional remediation activities appeared to be warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On February 14, 2022, and August 22, 2022, WSP and Ensolum personnel, respectively, were at the Site to oversee delineation and excavation activities. Five boreholes (BH01/BH01A through BH05/BH05A) were advanced via hand auger within the release extent to assess the vertical extent of impacted soil. The boreholes were advanced to a depth of 2 feet bgs. Delineation soil samples were collected from each borehole at depths of 1-foot and 2 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for preliminary soil samples SS02 and SS05. Excavation activities, completed on pad, were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected 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 FS01 through FS05 were collected from the floor of the excavation at a depth of 1-foot bgs. Due to the shallow depth of the excavation, sidewalls were incorporated into the floor samples. The 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 measured approximately 947 square feet. A total of approximately 35 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from boreholes BH01/BH01A through BH05/BH05A and excavation floor samples FS01 through FS05, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 10, 2021, crude oil flare fire release. Laboratory analytical results for delineation soil samples and excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further



remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2132756247. The Form C-141 is included as Appendix F.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

Hadlie Green
Staff Geologist

Kalei Jennings
Senior Scientist

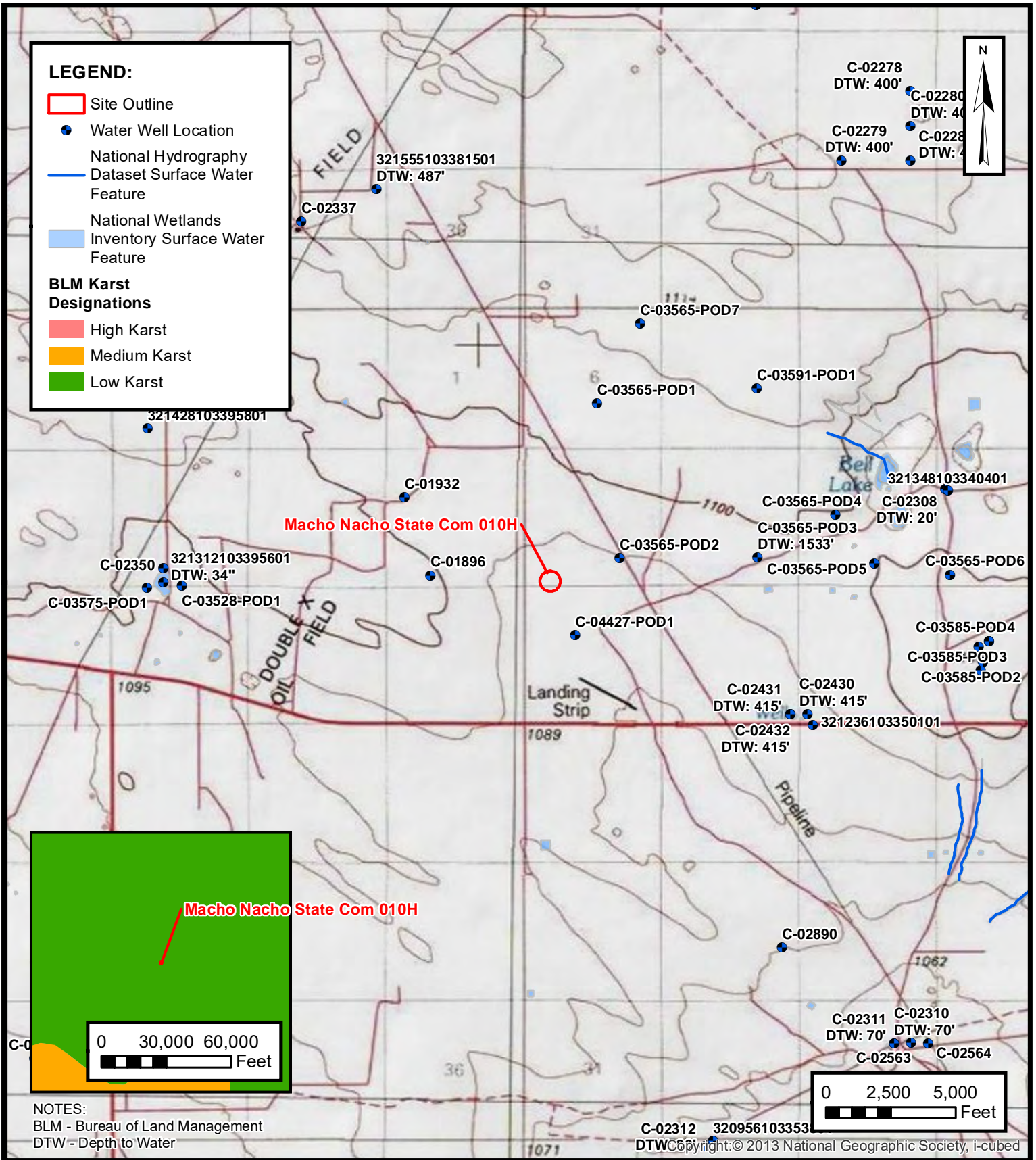
cc: Charles Beauvais, COG Operating, LLC
New Mexico State Land Office

Appendices:

- 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 Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Sample Notification
- Appendix F Final C-141



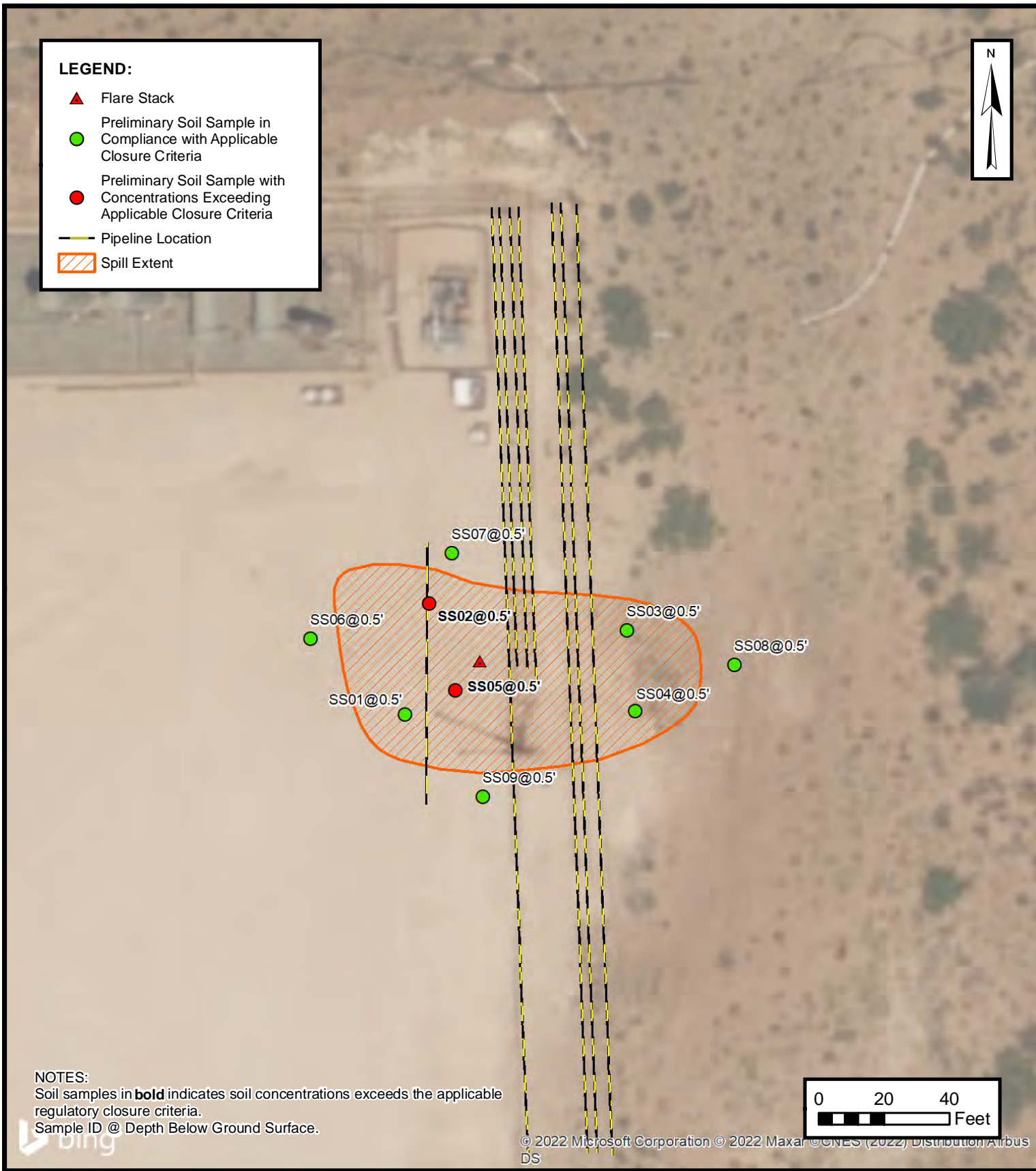
FIGURES



SITE RECEPTOR MAP

COG OPERATING, LLC
 MACHO NACHO STATE COM 010H
 Incident Number NAPP2132756247
 Unit M, Sec 07, T24S, R33E
 Lea County, New Mexico

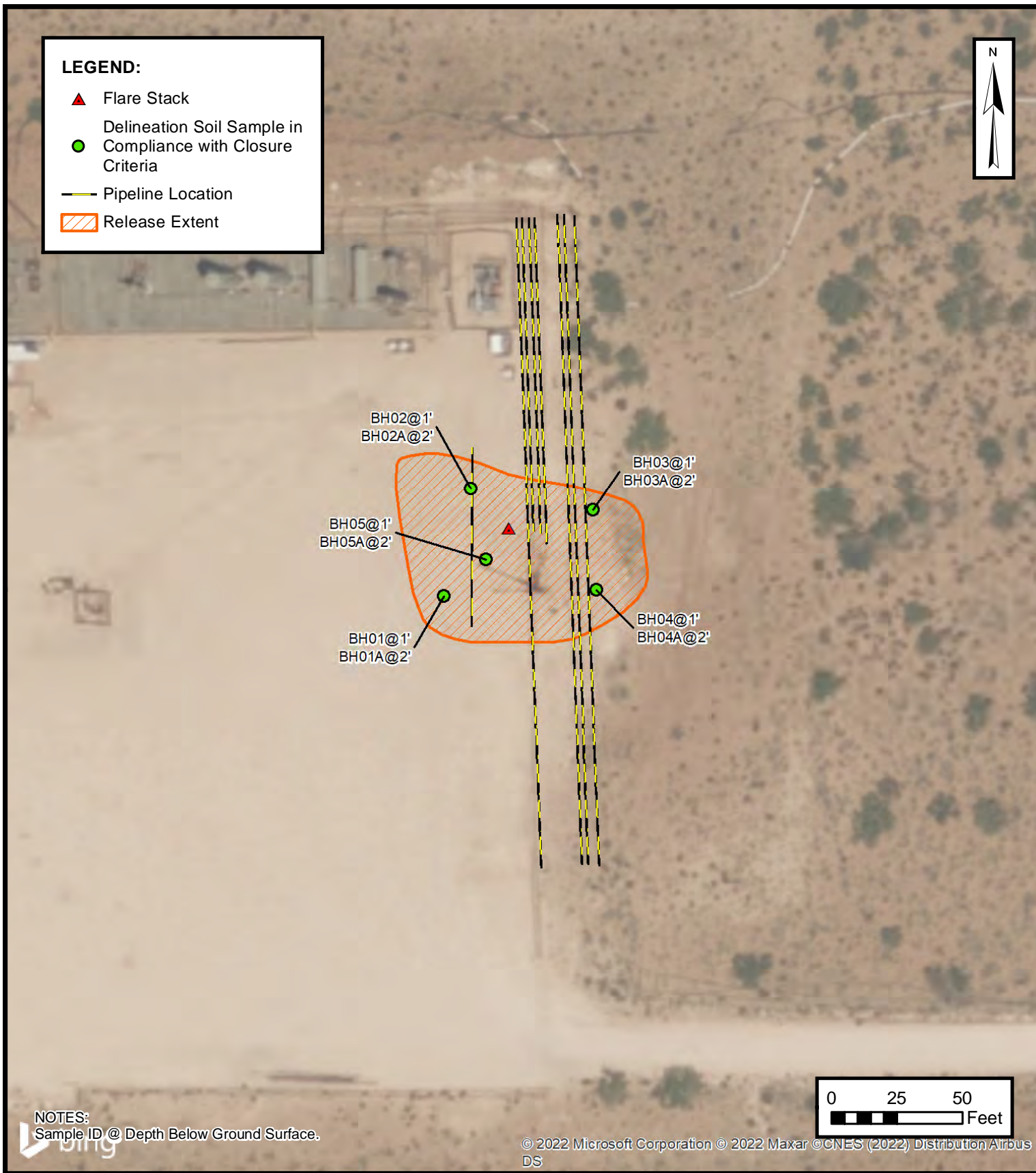
FIGURE
1



PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
 MACHO NACHO STATE COM 010H
 Incident Number NAPP2132756247
 Unit M, Sec 07, T24S, R33E
 Lea County, New Mexico

FIGURE
2

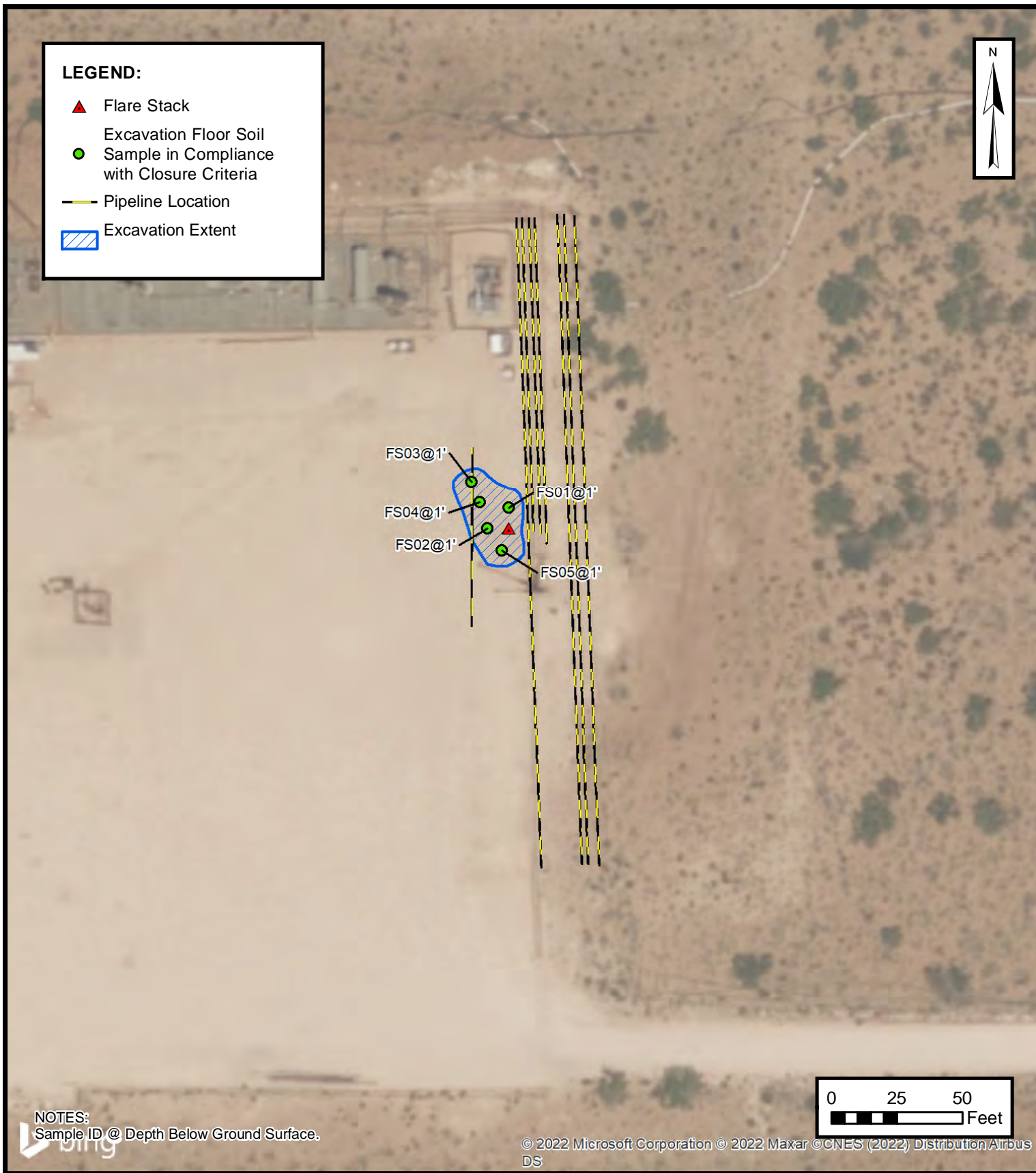


ENSOLUM
Environmental & Hydrogeologic Consultants

DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
 MACHO NACHO STATE COM 010H
 Incident Number NAPP2132756247
 Unit M, Sec 07, T24S, R33E
 Lea County, New Mexico

FIGURE
3



EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
 MACHO NACHO STATE COM 010H
 Incident Number NAPP2132756247
 Unit M, Sec 07, T24S, R33E
 Lea County, New Mexico

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Macho Nacho State Com 010H
 COG Operating, LLC
 Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Preliminary Assessment Soil Samples | | | | | | | | | | |
| SS01 | 11/29/2021 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.99 |
| SS02 | 11/29/2021 | 0.5 | <0.00202 | <0.00404 | 4,540 | <50.0 | <50.0 | 4,540 | 4,540 | 47.7 |
| SS03 | 11/29/2021 | 0.5 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <49.5 |
| SS04 | 11/29/2021 | 0.5 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <5.02 |
| SS05 | 11/29/2021 | 0.5 | <0.00199 | <0.00398 | 3,760 | <49.8 | <49.8 | 3,760 | 3,760 | 56.7 |
| SS06 | 11/29/2021 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 172 |
| SS07 | 11/29/2021 | 0.5 | <0.00201 | <0.00402 | 457 | <49.8 | <49.8 | 57.0 | 57.0 | 17.6 |
| SS08 | 11/29/2021 | 0.5 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5.00 |
| SS09 | 11/29/2021 | 0.5 | <0.00202 | <0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <4.96 |
| Delineation Soil Samples | | | | | | | | | | |
| BH01 | 02/14/2022 | 1 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 42.0 |
| BH01A | 02/14/2022 | 2 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 24.5 |
| BH02 | 02/14/2022 | 1 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 28.6 |
| BH02A | 08/22/2022 | 2 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 22.4 |
| BH03 | 02/14/2022 | 1 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13.3 |
| BH03A | 02/14/2022 | 2 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5.01 |
| BH04 | 02/14/2022 | 1 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <4.95 |
| BH04A | 02/14/2022 | 2 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <5.01 |
| BH05 | 02/14/2022 | 1 | <0.00202 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13.6 |
| BH05A | 08/22/2022 | 2 | <0.00202 | <0.00403 | <49.9 | 51.1 | <49.9 | 51.1 | 51.1 | 8.15 |



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS**
Macho Nacho State Com 010H
COG Operating, LLC
Lea County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total 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 Soil Samples | | | | | | | | | | |
| FS01 | 08/22/2022 | 1 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 8.97 |
| FS02 | 08/22/2022 | 1 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 9.11 |
| FS03 | 08/22/2022 | 1 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 25.8 |
| FS04 | 08/22/2022 | 1 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 13.7 |
| FS05 | 08/22/2022 | 1 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 14.5 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria for Soils Impacted by a Release

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: C 03565 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: EXP EXPLORATION

Primary Status:


Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: INTERCONTINENTAL POTASH CORP










Contact: TOM COPE

Documents on File

| Trn # | Doc | File/Act | Status | | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|--|------------------------|----------------------|----------------------------|-----|-------------------|-------------|-------|-----------|-------------|
| | | | 1 | 2 | | | | | |
|  get images | 509298 | EXPL | 2012-08-07 | PMT | APR | C 03565 | T | 0 | 0 |

Current Points of Diversion

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | Q | | | | X | Y | Other Location Desc |
|------------------------------|----------|--------|----|-----|----|-------------|--------|---------|---|
| | | | 64 | Q16 | Q4 | Sec Tws Rng | | | |
| C 03565 POD1 | | | 1 | 4 | 06 | 24S 33E | 630871 | 3568316 |  ICP-083 |
| C 03565 POD2 | | | 3 | 4 | 07 | 24S 33E | 631156 | 3566515 |  ICP-084 |
| C 03565 POD3 | | | 3 | 4 | 08 | 24S 33E | 632763 | 3566546 |  ICP-085 |
| C 03565 POD4 | | | 4 | 1 | 09 | 24S 33E | 633672 | 3567057 |  ICP-086 |
| C 03565 POD5 | | | 3 | 4 | 09 | 24S 33E | 634135 | 3566496 |  ICP-87 |
| C 03565 POD6 | | | 3 | 3 | 10 | 24S 33E | 635022 | 3566373 |  ICP-089 |
| C 03565 POD7 | | | 2 | 2 | 06 | 24S 33E | 631361 | 3569250 |  ICP-090 |
| C 03565 POD8 | | | 4 | 1 | 15 | 24S 33E | 635485 | 3565610 |  ICP-092 |
| C 03565 POD9 | | | 4 | 4 | 15 | 24S 33E | 636430 | 3565005 |  ICP-093 |

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

11/29/21 8:14 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

| | | | | | | | | | |
|-----------------|-------------------|------------|------------|-----------|------------|------------|------------|----------|----------|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
| C | 03565 POD3 | 3 | 4 | 08 | 24S | 33E | 632763 | 3566546 | |

| | | |
|-------------------------------------|---|-------------------------------|
| Driller License: 331 | Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO. | Plug Date: |
| Driller Name: | | Source: |
| Drill Start Date: 09/27/2012 | Drill Finish Date: 10/21/2012 | Estimated Yield: |
| Log File Date: 12/11/2012 | PCW Rev Date: | Depth Water: 1533 feet |
| Pump Type: | Pipe Discharge Size: | |
| Casing Size: 8.90 | Depth Well: | |

| Water Bearing Stratifications: | Top | Bottom | Description |
|--------------------------------|------|--------|-------------------------------|
| | 0 | 20 | Other/Unknown |
| | 20 | 55 | Sandstone/Gravel/Conglomerate |
| | 55 | 1227 | Shale/Mudstone/Siltstone |
| | 1227 | 1262 | Other/Unknown |
| | 1262 | 1295 | Other/Unknown |
| | 1295 | 1310 | Other/Unknown |
| | 1310 | 1330 | Other/Unknown |
| | 1330 | 1375 | Other/Unknown |
| | 1479 | 1489 | Other/Unknown |
| | 1489 | 1533 | Other/Unknown |

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

11/29/21 8:14 AM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category: Site Information Geographic Area: United States GO

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- [Full News](#)

USGS 321312103395601 24S.32E.10.344333

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

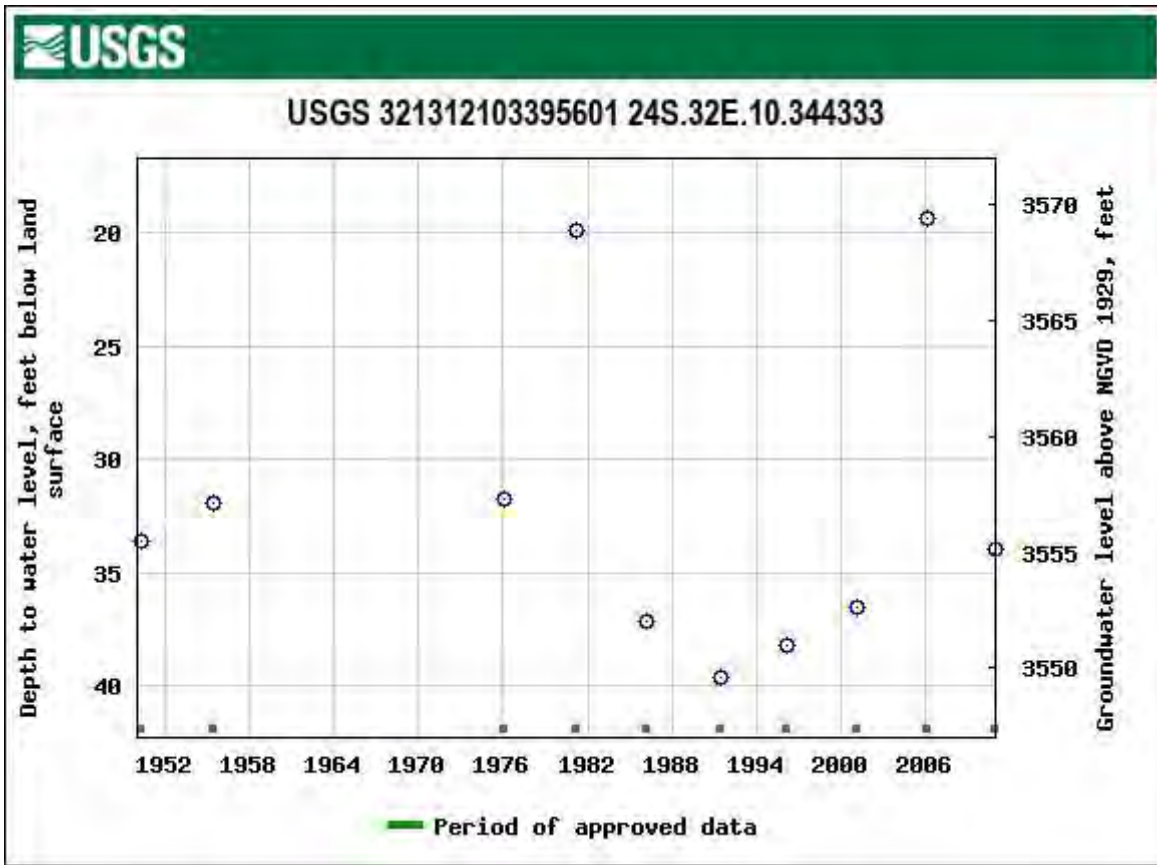
Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 60 feet
Land surface altitude: 3,589.00 feet above NGVD29.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|--|------------|-------|
| Field groundwater-level measurements | 1950-04-13 | 2010-12-16 | 10 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |
| Additional Data Sources | Begin Date | End Date | Count |
| Annual Water-Data Report (pdf) **offsite** | 2011 | 2011 | 1 |

OPERATION:


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








APPENDIX B


Lithologic Soil Sampling Logs

|  | | | | | Sample Name: BH01 | | Date: 02/14/2022 | | | | | | |
|--|----------------|-------------|----------|-----------|--|----------------|-------------------------|---|--|--------------------------|-------------------------------|------------------------------|--|
| | | | | | Site Name: Macho Nacho State Com 010H | | | | Incident Number: NAPP2132756247 | | Job Number: 03D2024008 | | |
| | | | | | LITHOLOGIC / SOIL SAMPLING LOG | | | | | Logged By: PB | | Method: Hand Auger | |
| | | | | | Coordinates: 32.2254797, -103.6171702 | | | | | Hole Diameter: 4" | | Total Depth: 2 ft bgs | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. SAA - Same As Above. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| | | | | | | 0 | | | | | | | |
| D | <179 | 1.0 | N | BH01 | 1 | 1 | SP-SM | SAND, brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain or odor. | | | | | |
| D | <179 | 1.3 | N | BH01A | 2 | 2 | SP-SM | SAA | | | | | |
| TD @ 2 feet bgs | | | | | | | | | | | | | |

|  | | | | | Sample Name: BH02 | | Date: 02/14/2022 | |
|--|----------------|-------------|----------|-----------|--|----------------|------------------------------|---|
| | | | | | Site Name: Macho Nacho State Com 010H | | | |
| | | | | | Incident Number: NAPP2132756247 | | | |
| | | | | | Job Number: 03D2024008 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | Logged By: PB | | Method: Hand Auger | |
| Coordinates: 32.2255908, -103.6171373 | | | | | Hole Diameter: 4" | | Total Depth: 2 ft bgs | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. SAA - Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| D | <179 | 0.9 | N | BH02 | 1 | 1 | SP-SM | SAND, brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain or odor. |
| D | <179 | 0.7 | N | BH02A | 2 | 2 | SP-SM | SAA |
| TD @ 2 feet bgs | | | | | | | | |

|  | | | | | Sample Name: BH03 | | Date: 02/14/2022 | |
|--|----------------|-------------|----------|-----------|--|----------------|------------------------------|---|
| | | | | | Site Name: Macho Nacho State Com 010H | | | |
| | | | | | Incident Number: NAPP2132756247 | | | |
| | | | | | Job Number: 03D2024008 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | Logged By: PB | | Method: Hand Auger | |
| Coordinates: 32.2255684, -103.6169878 | | | | | Hole Diameter: 4" | | Total Depth: 2 ft bgs | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. SAA - Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| D | <179 | 1.5 | N | BH03 | 1 | 1 | SP-SM | SAND, brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain or odor. |
| D | <179 | 1.6 | N | BH03A | 2 | 2 | SP-SM | SAA |
| TD @ 2 feet bgs | | | | | | | | |

|  | | | | | Sample Name: BH04 | | Date: 02/14/2022 | |
|--|----------------|-------------|----------|-----------|--|----------------|------------------------------|---|
| | | | | | Site Name: Macho Nacho State Com 010H | | | |
| | | | | | Incident Number: NAPP2132756247 | | | |
| | | | | | Job Number: 03D2024008 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | Logged By: PB | | Method: Hand Auger | |
| Coordinates: 32.2254862, -103.6169824 | | | | | Hole Diameter: 4" | | Total Depth: 2 ft bgs | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. SAA - Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| D | <179 | 2.2 | N | BH04 | 1 | 1 | SP-SM | SAND, brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain or odor. |
| D | <179 | 1.8 | N | BH04A | 2 | 2 | SP-SM | SAA |
| TD @ 2 feet bgs | | | | | | | | |

|  | | | | | Sample Name: BH05 | | Date: 02/14/2022 | |
|--|----------------|-------------|----------|-----------|--|----------------|------------------------------|---|
| | | | | | Site Name: Macho Nacho State Com 010H | | | |
| | | | | | Incident Number: NAPP2132756247 | | | |
| | | | | | Job Number: 03D2024008 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | Logged By: PB | | Method: Hand Auger | |
| Coordinates: 32.2255165, -103.6171186 | | | | | Hole Diameter: 4" | | Total Depth: 2 ft bgs | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. SAA - Same As Above. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| D | <179 | 2.2 | N | BH05 | 1 | 1 | SP-SM | SAND, brown, dry, abundant silt and clay, fine grain, well sorted, poorly graded, no stain or odor. |
| D | <179 | 2.5 | N | BH05A | 2 | 2 | SP-SM | SAA |
| TD @ 2 feet bgs | | | | | | | | |



APPENDIX C

Photographic Log



Photographic Log
COG Operating, LLC
Macho Nacho State Com 010H
Incident Number NAPP232756247



Photograph 1 Date: November 29, 2021
Description: View of release extent, facing northeast.



Photograph 2 Date: November 29, 2021
Description: View of flare area, facing northwest.



Photograph 3 Date: February 14, 2021
Description: View of delineation activities, facing east.



Photograph 4 Date: August 22, 2022
Description: View of final excavation extent, facing northwest.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1653-1
Laboratory Sample Delivery Group: 31403720.000 Task 15.02
Client Project/Site: Macho Nacho State Com 010H

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

Attn: Kalei Jennings

Authorized for release by:
12/9/2021 10:27:32 AM

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



LINKS

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www.eurofinsus.com/Env

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

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

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

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Laboratory Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Qualifiers

GC 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. |

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Job ID: 890-1653-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1653-1

Receipt

The samples were received on 11/29/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13650 and analytical batch 880-14305 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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



Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS01

Lab Sample ID: 890-1653-1

Date Collected: 11/29/21 10:55

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| Xylenes, Total | <0.00398 | U F1 | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:31 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 14:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 14:55 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 14:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 14:55 | 1 |
| o-Terphenyl | 82 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 14:55 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.99 | U | 4.99 | mg/Kg | | | 12/09/21 05:59 | 1 |

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:52 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:52 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
 SDG: 31403720.000 Task 15.02

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:52 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 4540 | | 50.0 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:16 | 1 |
| Diesel Range Organics (Over C10-C28) | 4540 | | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 15:16 | 1 |
| o-Terphenyl | 77 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 15:16 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 47.7 | | 5.00 | mg/Kg | | | 12/09/21 06:05 | 1 |

Client Sample ID: SS03

Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 00:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 00:12 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS03

Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:38 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 15:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 15:38 | 1 |
| o-Terphenyl | 74 | | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 15:38 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.95 | U | 4.95 | mg/Kg | | | 12/09/21 06:12 | 1 |

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 12/01/21 10:18 | 12/03/21 00:32 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 43 | S1- | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 16:21 | 1 |
| o-Terphenyl | 77 | | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 16:21 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.02 | U | 5.02 | mg/Kg | | | 12/09/21 06:32 | 1 |

Client Sample ID: SS05

Lab Sample ID: 890-1653-5

Date Collected: 11/29/21 11:10

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 138 | S1+ | 70 - 130 | | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 12/01/21 10:18 | 12/03/21 00:53 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 3760 | | 49.8 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:43 | 1 |
| Diesel Range Organics (Over C10-C28) | 3760 | | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:43 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 16:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 72 | | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 16:43 | 1 |
| o-Terphenyl | 67 | S1- | 70 - 130 | | | 12/03/21 08:25 | 12/03/21 16:43 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 56.7 | | 4.97 | mg/Kg | | | 12/09/21 06:39 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS06

Lab Sample ID: 890-1653-6

Date Collected: 11/29/21 11:37

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:13 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:05 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 76 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:05 | 1 |
| o-Terphenyl | 72 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:05 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 172 | | 4.95 | mg/Kg | | | 12/09/21 06:45 | 1 |

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 124 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:34 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
 SDG: 31403720.000 Task 15.02

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:34 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 57 | | 49.8 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:27 | 1 |
| Diesel Range Organics (Over C10-C28) | 57 | | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 71 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:27 | 1 |
| o-Terphenyl | 71 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:27 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.6 | | 4.99 | mg/Kg | | | 12/09/21 06:52 | 1 |

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/01/21 10:18 | 12/03/21 01:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 84 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 01:54 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:48 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 17:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 68 | S1- | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:48 | 1 |
| o-Terphenyl | 66 | S1- | 70 - 130 | 12/03/21 08:25 | 12/03/21 17:48 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/09/21 06:59 | 1 |

Client Sample ID: SS09

Lab Sample ID: 890-1653-9

Date Collected: 11/29/21 11:44

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 12/01/21 10:18 | 12/03/21 02:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 02:14 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 12/01/21 10:18 | 12/03/21 02:14 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 18:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 18:09 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 18:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 77 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 18:09 | 1 |
| o-Terphenyl | 75 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 18:09 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS09

Lab Sample ID: 890-1653-9

Date Collected: 11/29/21 11:44

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.96 | U F1 | 4.96 | mg/Kg | | | 12/09/21 07:05 | 1 |

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

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1653-1 | SS01 | 126 | 100 |
| 890-1653-1 MS | SS01 | 149 S1+ | 81 |
| 890-1653-1 MSD | SS01 | 119 | 102 |
| 890-1653-2 | SS02 | 114 | 104 |
| 890-1653-3 | SS03 | 121 | 101 |
| 890-1653-4 | SS04 | 117 | 97 |
| 890-1653-5 | SS05 | 138 S1+ | 103 |
| 890-1653-6 | SS06 | 122 | 100 |
| 890-1653-7 | SS07 | 124 | 99 |
| 890-1653-8 | SS08 | 114 | 84 |
| 890-1653-9 | SS09 | 113 | 95 |
| LCS 880-13446/1-A | Lab Control Sample | 112 | 99 |
| LCSD 880-13446/2-A | Lab Control Sample Dup | 111 | 96 |
| MB 880-13446/5-A | Method Blank | 122 | 99 |
| MB 880-13455/5-A | Method Blank | 123 | 99 |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1653-1 | SS01 | 82 | 82 |
| 890-1653-2 | SS02 | 81 | 77 |
| 890-1653-3 | SS03 | 78 | 74 |
| 890-1653-4 | SS04 | 43 S1- | 77 |
| 890-1653-5 | SS05 | 72 | 67 S1- |
| 890-1653-6 | SS06 | 76 | 72 |
| 890-1653-7 | SS07 | 71 | 71 |
| 890-1653-8 | SS08 | 68 S1- | 66 S1- |
| 890-1653-9 | SS09 | 77 | 75 |
| 890-1658-A-1-D MS | Matrix Spike | 71 | 65 S1- |
| 890-1658-A-1-E MSD | Matrix Spike Duplicate | 72 | 65 S1- |
| LCS 880-13833/2-A | Lab Control Sample | 64 S1- | 61 S1- |
| LCSD 880-13833/3-A | Lab Control Sample Dup | 69 S1- | 68 S1- |
| MB 880-13833/1-A | Method Blank | 97 | 97 |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13446/5-A
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 10:18 | 12/02/21 23:02 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 12/01/21 10:18 | 12/02/21 23:02 | 1 |

Lab Sample ID: LCS 880-13446/1-A
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene | 0.100 | 0.09337 | | mg/Kg | | 93 | 70 - 130 |
| Toluene | 0.100 | 0.09366 | | mg/Kg | | 94 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09097 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1803 | | mg/Kg | | 90 | 70 - 130 |
| o-Xylene | 0.100 | 0.09086 | | mg/Kg | | 91 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Lab Sample ID: LCSD 880-13446/2-A
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100 | 0.08752 | | mg/Kg | | 88 | 70 - 130 | 6 | 35 |
| Toluene | 0.100 | 0.09320 | | mg/Kg | | 93 | 70 - 130 | 0 | 35 |
| Ethylbenzene | 0.100 | 0.09679 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1908 | | mg/Kg | | 95 | 70 - 130 | 6 | 35 |
| o-Xylene | 0.100 | 0.09434 | | mg/Kg | | 94 | 70 - 130 | 4 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

Lab Sample ID: 890-1653-1 MS
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00199 | U | 0.100 | 0.08598 | | mg/Kg | | 85 | 70 - 130 |
| Toluene | <0.00199 | U | 0.100 | 0.07857 | | mg/Kg | | 78 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: 890-1653-1 MS
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08168 | | mg/Kg | | 81 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.201 | 0.1022 | F1 | mg/Kg | | 50 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08337 | | mg/Kg | | 81 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 149 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 |

Lab Sample ID: 890-1653-1 MSD
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 13446

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Benzene | <0.00199 | U | 0.100 | 0.07355 | | mg/Kg | | 73 | 70 - 130 | 16 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.07570 | | mg/Kg | | 76 | 70 - 130 | 4 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.07810 | | mg/Kg | | 78 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.200 | 0.09868 | F1 | mg/Kg | | 48 | 70 - 130 | 3 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.07790 | | mg/Kg | | 76 | 70 - 130 | 7 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: MB 880-13455/5-A
Matrix: Solid
Analysis Batch: 13722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13455

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 11:07 | 12/02/21 11:28 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | 12/01/21 11:07 | 12/02/21 11:28 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 12/01/21 11:07 | 12/02/21 11:28 | 1 |

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

Lab Sample ID: MB 880-13833/1-A
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 10:36 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: MB 880-13833/1-A
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 10:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/03/21 08:25 | 12/03/21 10:36 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 97 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 10:36 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | 12/03/21 08:25 | 12/03/21 10:36 | 1 |

Lab Sample ID: LCS 880-13833/2-A
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 712.0 | | mg/Kg | | 71 | 70 - 130 |

| Surrogate | LCS | LCS | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 64 | S1- | 70 - 130 |
| o-Terphenyl | 61 | S1- | 70 - 130 |

Lab Sample ID: LCSD 880-13833/3-A
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 800.1 | | mg/Kg | | 80 | 70 - 130 | 12 | 20 |

| Surrogate | LCSD | LCSD | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 69 | S1- | 70 - 130 |
| o-Terphenyl | 68 | S1- | 70 - 130 |

Lab Sample ID: 890-1658-A-1-D MS
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | Sample | Sample | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|--------|-----------|-------------|-----------|--------------|-------|---|------|--------------|
| | Result | Qualifier | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 821.0 | | mg/Kg | | 82 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 827.5 | | mg/Kg | | 83 | 70 - 130 |

| Surrogate | MS | MS | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 71 | | 70 - 130 |
| o-Terphenyl | 65 | S1- | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: 890-1658-A-1-E MSD
Matrix: Solid
Analysis Batch: 13850

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13833

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|-------------|------------|---------------|-------|---|------|---------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 999 | 830.7 | | mg/Kg | | 83 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 999 | 837.0 | | mg/Kg | | 84 | 70 - 130 | 1 | 20 |
| Surrogate | %Recovery | MSD Qualifier | | MSD | | | | | Limits | | |
| 1-Chlorooctane | 72 | | | | | | | | 70 - 130 | | |
| o-Terphenyl | 65 | S1- | | | | | | | 70 - 130 | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13650/1-A
Matrix: Solid
Analysis Batch: 14305

Client Sample ID: Method Blank
Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/09/21 05:12 | 1 |

Lab Sample ID: LCS 880-13650/2-A
Matrix: Solid
Analysis Batch: 14305

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250 | 268.2 | | mg/Kg | | 107 | 90 - 110 |

Lab Sample ID: LCSD 880-13650/3-A
Matrix: Solid
Analysis Batch: 14305

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 268.3 | | mg/Kg | | 107 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-1653-9 MS
Matrix: Solid
Analysis Batch: 14305

Client Sample ID: SS09
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <4.96 | U F1 | 248 | 284.4 | F1 | mg/Kg | | 115 | 90 - 110 |

Lab Sample ID: 890-1653-9 MSD
Matrix: Solid
Analysis Batch: 14305

Client Sample ID: SS09
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <4.96 | U F1 | 248 | 286.7 | F1 | mg/Kg | | 116 | 90 - 110 | 1 | 20 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

GC VOA

Prep Batch: 13446

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-1653-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-1653-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-1653-4 | SS04 | Total/NA | Solid | 5035 | |
| 890-1653-5 | SS05 | Total/NA | Solid | 5035 | |
| 890-1653-6 | SS06 | Total/NA | Solid | 5035 | |
| 890-1653-7 | SS07 | Total/NA | Solid | 5035 | |
| 890-1653-8 | SS08 | Total/NA | Solid | 5035 | |
| 890-1653-9 | SS09 | Total/NA | Solid | 5035 | |
| MB 880-13446/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-13446/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-13446/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1653-1 MS | SS01 | Total/NA | Solid | 5035 | |
| 890-1653-1 MSD | SS01 | Total/NA | Solid | 5035 | |

Prep Batch: 13455

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-13455/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 13722

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-2 | SS02 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-3 | SS03 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-4 | SS04 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-5 | SS05 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-6 | SS06 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-7 | SS07 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-8 | SS08 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-9 | SS09 | Total/NA | Solid | 8021B | 13446 |
| MB 880-13446/5-A | Method Blank | Total/NA | Solid | 8021B | 13446 |
| MB 880-13455/5-A | Method Blank | Total/NA | Solid | 8021B | 13455 |
| LCS 880-13446/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 13446 |
| LCSD 880-13446/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 13446 |
| 890-1653-1 MS | SS01 | Total/NA | Solid | 8021B | 13446 |
| 890-1653-1 MSD | SS01 | Total/NA | Solid | 8021B | 13446 |

Analysis Batch: 13868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-1653-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-1653-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-1653-4 | SS04 | Total/NA | Solid | Total BTEX | |
| 890-1653-5 | SS05 | Total/NA | Solid | Total BTEX | |
| 890-1653-6 | SS06 | Total/NA | Solid | Total BTEX | |
| 890-1653-7 | SS07 | Total/NA | Solid | Total BTEX | |
| 890-1653-8 | SS08 | Total/NA | Solid | Total BTEX | |
| 890-1653-9 | SS09 | Total/NA | Solid | Total BTEX | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

GC Semi VOA

Prep Batch: 13833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-5 | SS05 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-6 | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-7 | SS07 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-8 | SS08 | Total/NA | Solid | 8015NM Prep | |
| 890-1653-9 | SS09 | Total/NA | Solid | 8015NM Prep | |
| MB 880-13833/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-13833/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCS 880-13833/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1658-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1658-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 13850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-2 | SS02 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-3 | SS03 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-4 | SS04 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-5 | SS05 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-6 | SS06 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-7 | SS07 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-8 | SS08 | Total/NA | Solid | 8015B NM | 13833 |
| 890-1653-9 | SS09 | Total/NA | Solid | 8015B NM | 13833 |
| MB 880-13833/1-A | Method Blank | Total/NA | Solid | 8015B NM | 13833 |
| LCS 880-13833/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 13833 |
| LCS 880-13833/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 13833 |
| 890-1658-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 13833 |
| 890-1658-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 13833 |

Analysis Batch: 14112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1653-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-1653-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-1653-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-1653-4 | SS04 | Total/NA | Solid | 8015 NM | |
| 890-1653-5 | SS05 | Total/NA | Solid | 8015 NM | |
| 890-1653-6 | SS06 | Total/NA | Solid | 8015 NM | |
| 890-1653-7 | SS07 | Total/NA | Solid | 8015 NM | |
| 890-1653-8 | SS08 | Total/NA | Solid | 8015 NM | |
| 890-1653-9 | SS09 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 13650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-1653-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-1653-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-1653-3 | SS03 | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

HPLC/IC (Continued)

Leach Batch: 13650 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1653-4 | SS04 | Soluble | Solid | DI Leach | |
| 890-1653-5 | SS05 | Soluble | Solid | DI Leach | |
| 890-1653-6 | SS06 | Soluble | Solid | DI Leach | |
| 890-1653-7 | SS07 | Soluble | Solid | DI Leach | |
| 890-1653-8 | SS08 | Soluble | Solid | DI Leach | |
| 890-1653-9 | SS09 | Soluble | Solid | DI Leach | |
| MB 880-13650/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-13650/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-13650/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1653-9 MS | SS09 | Soluble | Solid | DI Leach | |
| 890-1653-9 MSD | SS09 | Soluble | Solid | DI Leach | |

Analysis Batch: 14305

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1653-1 | SS01 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-2 | SS02 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-3 | SS03 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-4 | SS04 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-5 | SS05 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-6 | SS06 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-7 | SS07 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-8 | SS08 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-9 | SS09 | Soluble | Solid | 300.0 | 13650 |
| MB 880-13650/1-A | Method Blank | Soluble | Solid | 300.0 | 13650 |
| LCS 880-13650/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 13650 |
| LCSD 880-13650/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 13650 |
| 890-1653-9 MS | SS09 | Soluble | Solid | 300.0 | 13650 |
| 890-1653-9 MSD | SS09 | Soluble | Solid | 300.0 | 13650 |

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
 SDG: 31403720.000 Task 15.02

Client Sample ID: SS01

Lab Sample ID: 890-1653-1

Date Collected: 11/29/21 10:55

Matrix: Solid

Date Received: 11/29/21 14:05

| 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 | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/02/21 23:31 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 14:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 05:59 | CH | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/02/21 23:52 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 15:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:05 | CH | XEN MID |

Client Sample ID: SS03

Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

| 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 | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 00:12 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 15:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:12 | CH | XEN MID |

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

| 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 | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 00:32 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
 SDG: 31403720.000 Task 15.02

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 16:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:32 | CH | XEN MID |

Client Sample ID: SS05

Lab Sample ID: 890-1653-5

Date Collected: 11/29/21 11:10

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 00:53 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 16:43 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:39 | CH | XEN MID |

Client Sample ID: SS06

Lab Sample ID: 890-1653-6

Date Collected: 11/29/21 11:37

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 01:13 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 17:05 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:45 | CH | XEN MID |

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

| 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 | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 01:34 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 17:27 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:52 | CH | XEN MID |

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

| 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 | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 01:54 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 17:48 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 06:59 | CH | XEN MID |

Client Sample ID: SS09

Lab Sample ID: 890-1653-9

Date Collected: 11/29/21 11:44

Matrix: Solid

Date Received: 11/29/21 14:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 13446 | 12/01/21 10:18 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 13722 | 12/03/21 02:14 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 13833 | 12/03/21 08:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 13850 | 12/03/21 18:09 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 13650 | 12/01/21 11:27 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 14305 | 12/09/21 07:05 | CH | XEN MID |

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

Laboratory: Eurofins Xenco, Midland

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

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

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

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

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Method Summary

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
 SDG: 31403720.000 Task 15.02

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1
SDG: 31403720.000 Task 15.02

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1653-1 | SS01 | Solid | 11/29/21 10:55 | 11/29/21 14:05 | 0.5 |
| 890-1653-2 | SS02 | Solid | 11/29/21 10:57 | 11/29/21 14:05 | 0.5 |
| 890-1653-3 | SS03 | Solid | 11/29/21 11:04 | 11/29/21 14:05 | 0.5 |
| 890-1653-4 | SS04 | Solid | 11/29/21 11:01 | 11/29/21 14:05 | 0.5 |
| 890-1653-5 | SS05 | Solid | 11/29/21 11:10 | 11/29/21 14:05 | 0.5 |
| 890-1653-6 | SS06 | Solid | 11/29/21 11:37 | 11/29/21 14:05 | 0.5 |
| 890-1653-7 | SS07 | Solid | 11/29/21 11:39 | 11/29/21 14:05 | 0.5 |
| 890-1653-8 | SS08 | Solid | 11/29/21 11:42 | 11/29/21 14:05 | 0.5 |
| 890-1653-9 | SS09 | Solid | 11/29/21 11:44 | 11/29/21 14:05 | 0.5 |

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Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

| | | | | | |
|--|--|--|-----------------|--|-------------------|
| Client Information (Sub Contract Lab) | | Sampler | Lab PM | Carrier Tracking No(s) | COC No |
| Client Contact: Eurofins Xenco | | Phone: | Kramer, Jessica | New Mexico | 890-527-1 |
| Company: Eurofins Xenco | | E-mail: jessica.kramer@eurofinsnet.com | | State of Origin | Page 1 of 1 |
| Address: 1211 W Florida Ave | | Accreditations Required (See note) | | NEWLAP - Louisiana NELAP - Texas | Job #: 890-1653-1 |
| City: Midland | | Due Date Requested: 12/9/2021 | | Preservation Codes | |
| State, Zip: TX 79701 | | TAT Requested (days) | | 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 Other: _____ | |
| Phone: 432-04-5440(Tel) | | PO #: | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | |
| Email: | | MO #: | | Project Name: Macho Nacho State Com 010H | |
| Project Name: Macho Nacho State Com 010H | | Project #: 89000048 | | Site: S50W#: | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=organic, P=plastic, M=metal) | Preservation Code | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFPM_28D/DI_LEACH Chloride | 8021B/5035FP_Calc BTEX | Total_BTEX_GCV | 8015MOD_Calc | Total Number of containers | Special Instructions/Note: |
|--|-------------|-------------|------------------------------|--|-------------------|-----------------------------------|----------------------------|-----------------------------------|----------------------------------|------------------------|----------------|--------------|----------------------------|----------------------------|
| SS01 (890-1653-1) | 11/29/21 | 10 55 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS02 (890-1653-2) | 11/29/21 | 10 57 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS03 (890-1653-3) | 11/29/21 | 11 04 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS04 (890-1653-4) | 11/29/21 | 11 01 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS05 (890-1653-5) | 11/29/21 | 11 10 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS06 (890-1653-6) | 11/29/21 | 11 37 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS07 (890-1653-7) | 11/29/21 | 11 39 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS08 (890-1653-8) | 11/29/21 | 11 42 | Mountain | Solid | | X | X | X | X | X | X | X | 1 | |
| SS09 (890-1653-9) | 11/29/21 | 11 44 | Mountain | Solid | | X | X | 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 our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Joe Curo 11-29-21* Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No: _____

Method of Shipment: _____

Received by: *Wanner* Date/Time: *11-30-21* Company: _____

Received by: _____ Date/Time: *11/40* Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1653-1
SDG Number: 31403720.000 Task 15.02

Login Number: 1653
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1653-1
SDG Number: 31403720.000 Task 15.02

Login Number: 1653
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 11/30/21 11:54 AM

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

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Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1956-1
Laboratory Sample Delivery Group: 31403720.00
Client Project/Site: Macho Nacho State Com 010h

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

Attn: Kalei Jennings

Authorized for release by:
2/25/2022 2:58:06 PM

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



LINKS

Review your project
results through
Total Access

Have a Question?



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

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

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Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Laboratory Job ID: 890-1956-1
SDG: 31403720.00

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1- | Surrogate recovery exceeds control limits, low 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. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

Job ID: 890-1956-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-1956-1**

Receipt

The sample was received on 2/16/2022 11:06 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-11400-A-1-F 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.

HPLC/IC

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

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
 SDG: 31403720.00

Client Sample ID: SS07

Lab Sample ID: 890-1956-1

Date Collected: 02/14/22 12:10

Matrix: Solid

Date Received: 02/16/22 11:06

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 02/24/22 09:39 | 02/25/22 06:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 06:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 06:05 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 02/25/22 13:43 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 212 | | 49.9 | mg/Kg | | | 02/21/22 19:16 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 02/17/22 11:56 | 02/19/22 21:21 | 1 |
| Diesel Range Organics (Over C10-C28) | 212 | | 49.9 | mg/Kg | | 02/17/22 11:56 | 02/19/22 21:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/17/22 11:56 | 02/19/22 21:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 73 | | 70 - 130 | 02/17/22 11:56 | 02/19/22 21:21 | 1 |
| o-Terphenyl | 72 | | 70 - 130 | 02/17/22 11:56 | 02/19/22 21:21 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 43.3 | | 4.99 | mg/Kg | | | 02/21/22 20:44 | 1 |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
|---------------------|------------------------|------------------|-------------------|
| 880-11351-A-1-C MS | Matrix Spike | 101 | 99 |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | 104 | 100 |
| 890-1956-1 | SS07 | 102 | 99 |
| LCS 880-20192/1-A | Lab Control Sample | 102 | 99 |
| LCSD 880-20192/2-A | Lab Control Sample Dup | 104 | 101 |
| MB 880-19723/5-A | Method Blank | 99 | 95 |
| MB 880-20192/5-A | Method Blank | 98 | 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)

| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
|---------------------|------------------------|------------------|-------------------|
| 880-11400-A-1-E MS | Matrix Spike | 76 | 76 |
| 880-11400-A-1-F MSD | Matrix Spike Duplicate | 69 S1- | 69 S1- |
| 890-1956-1 | SS07 | 73 | 72 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) |
|--------------------|------------------------|------------------|-------------------|
| LCS 880-19690/2-A | Lab Control Sample | 100 | 108 |
| LCSD 880-19690/3-A | Lab Control Sample Dup | 105 | 112 |
| MB 880-19690/1-A | Method Blank | 88 | 92 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19723/5-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19723

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |

Lab Sample ID: MB 880-20192/5-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |

Lab Sample ID: LCS 880-20192/1-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|--|
| | | | | | | | | |
| Benzene | 0.100 | 0.1094 | | mg/Kg | | 109 | 70 - 130 | |
| Toluene | 0.100 | 0.1080 | | mg/Kg | | 108 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1082 | | mg/Kg | | 108 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2226 | | mg/Kg | | 111 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1088 | | mg/Kg | | 109 | 70 - 130 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-20192/2-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD | |
|---------|-------------|-------------|----------------|-------|---|------|--------------|---|-----|-------|
| | | | | | | | | | RPD | Limit |
| Benzene | 0.100 | 0.1056 | | mg/Kg | | 106 | 70 - 130 | 4 | 35 | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

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

Lab Sample ID: LCSD 880-20192/2-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit | |
|-----------------------------|------------------|------------------|----------------|-------|---|------|--------------|-----|-----------|--|
| | | | | | | | | | | |
| Toluene | 0.100 | 0.1044 | | mg/Kg | | 104 | 70 - 130 | 3 | 35 | |
| Ethylbenzene | 0.100 | 0.1037 | | mg/Kg | | 104 | 70 - 130 | 4 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2138 | | mg/Kg | | 107 | 70 - 130 | 4 | 35 | |
| o-Xylene | 0.100 | 0.1055 | | mg/Kg | | 105 | 70 - 130 | 3 | 35 | |
| | | LCSD | LCSD | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | | | | | |

Lab Sample ID: 880-11351-A-1-C MS
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.1030 | | mg/Kg | | 103 | 70 - 130 | | |
| Toluene | <0.00199 | U | 0.0996 | 0.1018 | | mg/Kg | | 102 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.1002 | | mg/Kg | | 101 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.2090 | | mg/Kg | | 105 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.1073 | | mg/Kg | | 108 | 70 - 130 | | |
| | | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 880-11351-A-1-D MSD
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Benzene | <0.00199 | U | 0.0998 | 0.1114 | | mg/Kg | | 112 | 70 - 130 | 8 | 35 |
| Toluene | <0.00199 | U | 0.0998 | 0.1105 | | mg/Kg | | 111 | 70 - 130 | 8 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.1094 | | mg/Kg | | 110 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.2279 | | mg/Kg | | 114 | 70 - 130 | 9 | 35 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.1154 | | mg/Kg | | 116 | 70 - 130 | 7 | 35 |
| | | MSD | MSD | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | | | | | |

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

Lab Sample ID: MB 880-19690/1-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil | Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|-----|-----|
| | | | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 11:56 | 02/19/22 12:29 | | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

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

Lab Sample ID: MB 880-19690/1-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | MB MB | | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 11:56 | 02/19/22 12:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 11:56 | 02/19/22 12:29 | 1 |
| Surrogate | MB MB | | Limits | Unit | D | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | |
| 1-Chlorooctane | 88 | | 70 - 130 | | | 02/17/22 11:56 | 02/19/22 12:29 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 02/17/22 11:56 | 02/19/22 12:29 | 1 |

Lab Sample ID: LCS 880-19690/2-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|--------------|
| | | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 961.8 | | mg/Kg | | 96 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 931.0 | | mg/Kg | | 93 | 70 - 130 |
| Surrogate | LCS LCS | | Limits | Unit | D | %Rec | %Rec. Limits |
| | %Recovery | Qualifier | | | | | |
| 1-Chlorooctane | 100 | | 70 - 130 | | | | |
| o-Terphenyl | 108 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-19690/3-A
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | Spike Added | LCSD LCSD | | Unit | D | %Rec | %Rec. Limits | RPD | |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|--------------|-----|-------|
| | | Result | Qualifier | | | | | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 972.9 | | mg/Kg | | 97 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 918.4 | | mg/Kg | | 92 | 70 - 130 | 1 | 20 |
| Surrogate | LCSD LCSD | | Limits | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 105 | | 70 - 130 | | | | | | |
| o-Terphenyl | 112 | | 70 - 130 | | | | | | |

Lab Sample ID: 880-11400-A-1-E MS
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS MS | | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|--------|-----------|-------|--------------|------|--------------|
| | | | | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 1155 | | mg/Kg | | 114 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 110 | | 1000 | 1036 | | mg/Kg | | 93 | 70 - 130 |
| Surrogate | MS MS | | Limits | Unit | D | %Rec | %Rec. Limits | | |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 76 | | 70 - 130 | | | | | | |
| o-Terphenyl | 76 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

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

Lab Sample ID: 880-11400-A-1-F MSD
Matrix: Solid
Analysis Batch: 19863

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19690

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|----------------------|---------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 1159 | | mg/Kg | | 115 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | 110 | | 998 | 943.7 | | mg/Kg | | 84 | 70 - 130 | 9 | 20 |
| Surrogate | %Recovery | MSD Qualifier | MSD Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 69 | S1- | | 70 - 130 | | | | | | | |
| o-Terphenyl | 69 | S1- | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19804/1-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-19804/2-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-19804/3-A
Matrix: Solid
Analysis Batch: 19937

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

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

Lab Sample ID: 880-11403-A-1-B MS
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 2530 | | 5000 | 7764 | | mg/Kg | | 105 | 90 - 110 |

Lab Sample ID: 880-11403-A-1-C MSD
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 2530 | | 5000 | 7955 | | mg/Kg | | 108 | 90 - 110 | 2 | 20 |

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

GC VOA

Prep Batch: 19723

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19723/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 20184

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | 8021B | 20192 |
| MB 880-19723/5-A | Method Blank | Total/NA | Solid | 8021B | 19723 |
| MB 880-20192/5-A | Method Blank | Total/NA | Solid | 8021B | 20192 |
| LCS 880-20192/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 20192 |
| LCSD 880-20192/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 20192 |
| 880-11351-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 20192 |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 20192 |

Prep Batch: 20192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | 5035 | |
| MB 880-20192/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-20192/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-20192/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-11351-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 20327

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 19690

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-19690/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-19690/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-19690/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-11400-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-11400-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 19863

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | 8015B NM | 19690 |
| MB 880-19690/1-A | Method Blank | Total/NA | Solid | 8015B NM | 19690 |
| LCS 880-19690/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 19690 |
| LCSD 880-19690/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 19690 |
| 880-11400-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 19690 |
| 880-11400-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 19690 |

Analysis Batch: 19991

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1956-1 | SS07 | Total/NA | Solid | 8015 NM | |

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
 SDG: 31403720.00

HPLC/IC

Leach Batch: 19804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1956-1 | SS07 | Soluble | Solid | DI Leach | |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 19937

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1956-1 | SS07 | Soluble | Solid | 300.0 | 19804 |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | 300.0 | 19804 |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 19804 |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 19804 |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
 SDG: 31403720.00

Client Sample ID: SS07

Lab Sample ID: 890-1956-1

Date Collected: 02/14/22 12:10

Matrix: Solid

Date Received: 02/16/22 11:06

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 20192 | 02/24/22 09:39 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 20184 | 02/25/22 06:05 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20327 | 02/25/22 13:43 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19991 | 02/21/22 19:16 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 19690 | 02/17/22 11:56 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19863 | 02/19/22 21:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 20:44 | CH | XEN MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
 SDG: 31403720.00

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1956-1
SDG: 31403720.00

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1956-1 | SS07 | Solid | 02/14/22 12:10 | 02/16/22 11:06 | 0.5 |

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Chain of Custody

Work Order No: _____

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

www.xenco.com Page 1 of 1

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

Bill to: (if different) Kalei Jennings
 Company Name: WSP USA
 Address: 3300 North A Street Building 1, unit 222
 City, State ZIP: Midland, Texas 79705

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

Project Name: Macho Nacho State Com 010H Turn Around
 Project Number: 31403720.00 Routine
 P.O. Number: Rush:
 Sampler's Name: Payton Benner Due Date:
SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No
 Temperature (°C): 21.8/2.2 Thermometer ID
 Received Intact: Yes No TWM-007
 Cooler Custody Seals: Yes No N/A Correction Factor:
 Sample Custody Seals: Yes No N/A Total Containers: 0-2



890-1956 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|---|----------------|-------------------|----------------------|-----------------|
| | | | | | 1 | 2 | | | | |
| SS07 | S | 02/14/22 | 12:10 | 0.5 | 1 | X | X | X | | DISCRETE |
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

1. Payton Benner Payton Benner 8-14-22 11:06 Payton Benner Payton Benner 8-14-22 11:06

3. Payton Benner Payton Benner 8-14-22 11:06 Payton Benner Payton Benner 8-14-22 11:06

5. Payton Benner Payton Benner 8-14-22 11:06 Payton Benner Payton Benner 8-14-22 11:06

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

Chain of Custody Record



eurofins
 Environment Testing America

Client Information (Sub Contract Lab)

Client/Contact: _____ Phone: _____ Lab P# _____
 Shipping/Receiving: _____ E-Mail: jes.sica.kramer@eurofins.com
 Company: Eurofins Environment Testing South Cent.
 Address: 1211 W Florida Ave.
 City: Midland TX, 79701
 State, Zip: TX, 79701
 Phone: 432-04-5440(Tel)
 Email: _____

Project Name: Macho Nacho State Com 010h
 Project #: 89000048
 SSOV#: _____

Due Date Requested: 2/22/2022
 TAT Requested (days): _____

Accreditation Required (See note): NELAP - Louisiana NELAP - Texas

Carrier Tracking (Not): _____
 State of Origin: New Mexico

COC No: 890-628-1
 Page: Page 1 of 1
 Job #: 890-1956-1

Analysis Requested

| 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/6036FP_Calc BTEX | Total_BTEX_GCV | 8015MOD_Calc |
|-----------------------------------|----------------------------|-----------------------------------|---------------------------------|------------------------|----------------|--------------|
| X | X | X | X | X | X | X |

Sample Identification - Client ID (Lab ID)

| Sample ID | Sample Date | Sample Time | Sample Type (G=grab, P=Preserve, A=Air) | Matrix (Water, Soil, Organic, Asst, Other) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Special Instructions/Note: |
|-------------------|-------------|-------------|---|--|-----------------------------------|----------------------------|----------------------------|
| SS07 (890-1956-1) | 2/14/22 | 12:10 | Mountain | Solid | X | X | |

Possible Hazard Identification

Deliverable Requested: I II III IV Other (specify) _____
 Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Chain of Custody

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|-----------------|-----------|---------|-------------|-----------|---------|
| _____ | _____ | _____ | J. Warner | _____ | _____ |

Custody Seals Intact: Yes No
 Custody Seal No: _____

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1956-1

SDG Number: 31403720.00

Login Number: 1956

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1956-1

SDG Number: 31403720.00

Login Number: 1956

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 02/17/22 01:10 PM

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

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Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1957-1
Laboratory Sample Delivery Group: 31403720.00
Client Project/Site: Macho Nacho State Com 010h

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

Attn: Kalei Jennings

Authorized for release by:
2/28/2022 7:02:45 PM

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



LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

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

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Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Laboratory Job ID: 890-1957-1
SDG: 31403720.00

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

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 |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| *1 | LCS/LCSD 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. |

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Job ID: 890-1957-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-1957-1****Receipt**

The samples were received on 2/16/2022 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19726 and analytical batch 880-19783 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-19786 and analytical batch 880-19782 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-19786/2-A), (LCSD 880-19786/3-A), (890-1957-A-1-C MS) and (890-1957-A-1-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-19727/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-19786 and analytical batch 880-19782 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH01

Lab Sample ID: 890-1957-1

Date Collected: 02/14/22 13:42

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 01:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 01:22 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/18/22 17:26 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 10:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 10:48 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 10:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 10:48 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 10:48 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 42.0 | | 4.98 | mg/Kg | | | 02/21/22 20:50 | 1 |

Client Sample ID: BH01A

Lab Sample ID: 890-1957-2

Date Collected: 02/14/22 13:44

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 02/18/22 14:00 | 02/20/22 01:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 136 | S1+ | 70 - 130 | 02/18/22 14:00 | 02/20/22 01:43 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH01A

Lab Sample ID: 890-1957-2

Date Collected: 02/14/22 13:44

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 2

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 01:43 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/18/22 17:26 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 16:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 16:42 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 16:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 16:42 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 16:42 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 24.5 | | 4.95 | mg/Kg | | | 02/21/22 20:56 | 1 |

Client Sample ID: BH03

Lab Sample ID: 890-1957-3

Date Collected: 02/14/22 13:57

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 02:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 02:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/18/22 17:26 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH03

Lab Sample ID: 890-1957-3

Date Collected: 02/14/22 13:57

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U ** *1 | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 17:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U ** *1 | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 17:02 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 17:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 88 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 17:02 | 1 |
| o-Terphenyl | 89 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 17:02 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 13.3 | | 5.02 | mg/Kg | | | 02/21/22 21:03 | 1 |

Client Sample ID: BH03A

Lab Sample ID: 890-1957-4

Date Collected: 02/14/22 13:59

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 02/18/22 14:00 | 02/20/22 02:24 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/18/22 17:26 | 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 | | 02/18/22 08:34 | 02/18/22 17:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U ** *1 | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 17:45 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 17:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 17:45 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 17:45 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH03A

Lab Sample ID: 890-1957-4

Date Collected: 02/14/22 13:59

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5.01 | | 4.98 | mg/Kg | | | 02/21/22 21:22 | 1 |

Client Sample ID: BH04

Lab Sample ID: 890-1957-5

Date Collected: 02/14/22 13:50

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 131 | S1+ | 70 - 130 | | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | 02/18/22 14:00 | 02/20/22 02:44 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/18/22 17:26 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *+ *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:06 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 87 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 18:06 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 18:06 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <4.95 | U | 4.95 | mg/Kg | | | 02/21/22 21:28 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH04A

Lab Sample ID: 890-1957-6

Date Collected: 02/14/22 13:52

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/18/22 14:00 | 02/20/22 03:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 03:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | 02/18/22 14:00 | 02/20/22 03:04 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/21/22 19:46 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/18/22 17:26 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U*1 | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 18:07 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 18:07 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 18:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99 | | 70 - 130 | 02/17/22 14:25 | 02/18/22 18:07 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | 02/17/22 14:25 | 02/18/22 18:07 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.01 | U | 5.01 | mg/Kg | | | 02/21/22 21:34 | 1 |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1937-A-1-E MS | Matrix Spike | 139 S1+ | 85 |
| 890-1937-A-1-F MSD | Matrix Spike Duplicate | 129 | 105 |
| 890-1957-1 | BH01 | 118 | 102 |
| 890-1957-2 | BH01A | 136 S1+ | 99 |
| 890-1957-3 | BH03 | 119 | 95 |
| 890-1957-4 | BH03A | 115 | 97 |
| 890-1957-5 | BH04 | 131 S1+ | 102 |
| 890-1957-6 | BH04A | 114 | 97 |
| LCS 880-19726/1-A | Lab Control Sample | 106 | 94 |
| LCSD 880-19726/2-A | Lab Control Sample Dup | 113 | 94 |
| MB 880-19710/5-A | Method Blank | 136 S1+ | 106 |
| MB 880-19726/5-A | Method Blank | 120 | 99 |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-11404-A-1-F MS | Matrix Spike | 78 | 75 |
| 880-11404-A-1-G MSD | Matrix Spike Duplicate | 86 | 84 |
| 890-1957-1 | BH01 | 84 | 84 |
| 890-1957-1 MS | BH01 | 71 | 66 S1- |
| 890-1957-1 MSD | BH01 | 68 S1- | 62 S1- |
| 890-1957-2 | BH01A | 98 | 92 |
| 890-1957-3 | BH03 | 88 | 89 |
| 890-1957-4 | BH03A | 91 | 90 |
| 890-1957-5 | BH04 | 87 | 84 |
| 890-1957-6 | BH04A | 99 | 107 |
| LCS 880-19727/2-A | Lab Control Sample | 105 | 120 |
| LCSD 880-19727/3-A | Lab Control Sample Dup | 119 | 132 S1+ |
| MB 880-19727/1-A | Method Blank | 89 | 102 |

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-19786/2-A | Lab Control Sample | 141 S1+ | 140 S1+ |
| LCSD 880-19786/3-A | Lab Control Sample Dup | 175 S1+ | 174 S1+ |
| MB 880-19786/1-A | Method Blank | 83 | 87 |

Surrogate Legend

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 890-1957-1
SDG: 31403720.00

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19710/5-A
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19710

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 136 | S1+ | 70 - 130 | | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | 02/18/22 08:30 | 02/19/22 11:55 | 1 |

Lab Sample ID: MB 880-19726/5-A
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 02/18/22 14:00 | 02/19/22 23:32 | 1 |

Lab Sample ID: LCS 880-19726/1-A
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|---------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Toluene | 0.100 | 0.09114 | | mg/Kg | | 91 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09514 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1787 | | mg/Kg | | 89 | 70 - 130 |
| o-Xylene | 0.100 | 0.08747 | | mg/Kg | | 87 | 70 - 130 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-19726/2-A
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | RPD | Limit |
| Benzene | 0.100 | 0.08249 | | mg/Kg | | 82 | 70 - 130 | 3 | 35 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

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

Lab Sample ID: LCSD 880-19726/2-A
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | Limit |
|-----------------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Toluene | 0.100 | 0.08890 | | mg/Kg | | 89 | 70 - 130 | 2 | 35 | |
| Ethylbenzene | 0.100 | 0.08914 | | mg/Kg | | 89 | 70 - 130 | 7 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.1773 | | mg/Kg | | 89 | 70 - 130 | 1 | 35 | |
| o-Xylene | 0.100 | 0.09142 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 | |
| | | LCSD | LCSD | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-1937-A-1-E MS
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS | | Unit | D | %Rec | %Rec. | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|---------|-----------|-------|---|------|----------|-----|-----|-------|
| | | | | Result | Qualifier | | | | Limits | RPD | | |
| Benzene | <0.00202 | U F1 F2 | 0.100 | 0.05182 | F1 | mg/Kg | | 52 | 70 - 130 | | 35 | |
| Toluene | <0.00202 | U F1 | 0.100 | 0.05670 | F1 | mg/Kg | | 56 | 70 - 130 | | 35 | |
| Ethylbenzene | <0.00202 | U | 0.100 | 0.09014 | | mg/Kg | | 90 | 70 - 130 | | 35 | |
| m-Xylene & p-Xylene | <0.00404 | U F1 | 0.201 | 0.1275 | F1 | mg/Kg | | 63 | 70 - 130 | | 35 | |
| o-Xylene | <0.00202 | U F1 | 0.100 | 0.06332 | F1 | mg/Kg | | 63 | 70 - 130 | | 35 | |
| | | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 139 | S1+ | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | | | | | | | | | |

Lab Sample ID: 890-1937-A-1-F MSD
Matrix: Solid
Analysis Batch: 19783

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19726

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD | | Unit | D | %Rec | %Rec. | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|---------|-----------|-------|---|------|----------|-----|-----|-------|
| | | | | Result | Qualifier | | | | Limits | RPD | | |
| Benzene | <0.00202 | U F1 F2 | 0.0998 | 0.07961 | F2 | mg/Kg | | 80 | 70 - 130 | 42 | 35 | |
| Toluene | <0.00202 | U F1 | 0.0998 | 0.07714 | | mg/Kg | | 77 | 70 - 130 | 31 | 35 | |
| Ethylbenzene | <0.00202 | U | 0.0998 | 0.09264 | | mg/Kg | | 93 | 70 - 130 | 3 | 35 | |
| m-Xylene & p-Xylene | <0.00404 | U F1 | 0.200 | 0.1586 | | mg/Kg | | 79 | 70 - 130 | 22 | 35 | |
| o-Xylene | <0.00202 | U F1 | 0.0998 | 0.08155 | | mg/Kg | | 82 | 70 - 130 | 25 | 35 | |
| | | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 129 | | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | | | |

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

Lab Sample ID: MB 880-19727/1-A
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | MB | | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 09:18 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

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

Lab Sample ID: MB 880-19727/1-A
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 09:18 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/17/22 14:25 | 02/18/22 09:18 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 1-Chlorooctane | 89 | | 70 - 130 | 02/17/22 14:25 | 02/18/22 09:18 | 1 | | |
| o-Terphenyl | 102 | | 70 - 130 | 02/17/22 14:25 | 02/18/22 09:18 | 1 | | |

Lab Sample ID: LCS 880-19727/2-A
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|------|-----|----------|--------------|
| | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1072 | mg/Kg | | 107 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | | | | |
| | %Recovery | Qualifier | | | | | |
| 1-Chlorooctane | 105 | | 70 - 130 | | | | |
| o-Terphenyl | 120 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-19727/3-A
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1108 | *1 | mg/Kg | | 111 | 70 - 130 | 26 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1132 | | mg/Kg | | 113 | 70 - 130 | 5 | 20 |
| Surrogate | LCSD | LCSD | Limits | | | | | | |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 119 | | 70 - 130 | | | | | | |
| o-Terphenyl | 132 | S1+ | 70 - 130 | | | | | | |

Lab Sample ID: 880-11404-A-1-F MS
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|------|-----|----------|--------------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 1008 | mg/Kg | | 101 | 70 - 130 | |
| Surrogate | MS | MS | Limits | | | | | | |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 78 | | 70 - 130 | | | | | | |
| o-Terphenyl | 75 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

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

Lab Sample ID: 880-11404-A-1-G MSD
Matrix: Solid
Analysis Batch: 19777

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19727

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | |
|--------------------------------------|------------------|------------------|---------------|--------|-----------|-------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 998 | 1056 | | mg/Kg | | 104 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 1127 | | mg/Kg | | 113 | 70 - 130 | 11 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 86 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 84 | | 70 - 130 | | | | | | | | |

Lab Sample ID: MB 880-19786/1-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |

Lab Sample ID: LCS 880-19786/2-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec. |
|--------------------------------------|------------------|------------------|---------------|-------|---|------|----------|
| | | | | | | | Result |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1056 | | mg/Kg | | 106 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1360 | *+ | mg/Kg | | 136 | 70 - 130 |
| Surrogate | %Recovery | Qualifier | Limits | | | | |
| 1-Chlorooctane | 141 | S1+ | 70 - 130 | | | | |
| o-Terphenyl | 140 | S1+ | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-19786/3-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec | %Rec. | RPD | |
|--------------------------------------|-------------|------|-------|-------|---|------|----------|-----------|--------|
| | | | | | | | Result | Qualifier | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1327 | *+ *1 | mg/Kg | | 133 | 70 - 130 | 23 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1708 | *+ *1 | mg/Kg | | 171 | 70 - 130 | 23 | 20 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

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

Lab Sample ID: LCSD 880-19786/3-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19786

| Surrogate | LCSD | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 175 | S1+ | 70 - 130 |
| o-Terphenyl | 174 | S1+ | 70 - 130 |

Lab Sample ID: 890-1957-1 MS
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|--------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 1000 | 1006 | | mg/Kg | | 98 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 1000 | 1197 | | mg/Kg | | 120 | 70 - 130 |

| Surrogate | MS | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 71 | | 70 - 130 |
| o-Terphenyl | 66 | S1- | 70 - 130 |

Lab Sample ID: 890-1957-1 MSD
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|--------------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 998 | 948.8 | | mg/Kg | | 93 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 998 | 1145 | | mg/Kg | | 115 | 70 - 130 | 4 | 20 |

| Surrogate | MSD | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 68 | S1- | 70 - 130 |
| o-Terphenyl | 62 | S1- | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19804/1-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-19804/2-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
 SDG: 31403720.00

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-19804/3-A
 Matrix: Solid
 Analysis Batch: 19937

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

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

Lab Sample ID: 880-11403-A-1-B MS
 Matrix: Solid
 Analysis Batch: 19937

Client Sample ID: Matrix Spike
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 2530 | | 5000 | 7764 | | mg/Kg | | 105 | 90 - 110 |

Lab Sample ID: 880-11403-A-1-C MSD
 Matrix: Solid
 Analysis Batch: 19937

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 2530 | | 5000 | 7955 | | mg/Kg | | 108 | 90 - 110 | 2 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

GC VOA

Prep Batch: 19710

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19710/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 19726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | 5035 | |
| 890-1957-2 | BH01A | Total/NA | Solid | 5035 | |
| 890-1957-3 | BH03 | Total/NA | Solid | 5035 | |
| 890-1957-4 | BH03A | Total/NA | Solid | 5035 | |
| 890-1957-5 | BH04 | Total/NA | Solid | 5035 | |
| 890-1957-6 | BH04A | Total/NA | Solid | 5035 | |
| MB 880-19726/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-19726/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-19726/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1937-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-1937-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 19783

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | 8021B | 19726 |
| 890-1957-2 | BH01A | Total/NA | Solid | 8021B | 19726 |
| 890-1957-3 | BH03 | Total/NA | Solid | 8021B | 19726 |
| 890-1957-4 | BH03A | Total/NA | Solid | 8021B | 19726 |
| 890-1957-5 | BH04 | Total/NA | Solid | 8021B | 19726 |
| 890-1957-6 | BH04A | Total/NA | Solid | 8021B | 19726 |
| MB 880-19710/5-A | Method Blank | Total/NA | Solid | 8021B | 19710 |
| MB 880-19726/5-A | Method Blank | Total/NA | Solid | 8021B | 19726 |
| LCS 880-19726/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 19726 |
| LCSD 880-19726/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 19726 |
| 890-1937-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 19726 |
| 890-1937-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 19726 |

Analysis Batch: 20009

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | Total BTEX | |
| 890-1957-2 | BH01A | Total/NA | Solid | Total BTEX | |
| 890-1957-3 | BH03 | Total/NA | Solid | Total BTEX | |
| 890-1957-4 | BH03A | Total/NA | Solid | Total BTEX | |
| 890-1957-5 | BH04 | Total/NA | Solid | Total BTEX | |
| 890-1957-6 | BH04A | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 19727

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-1957-6 | BH04A | Total/NA | Solid | 8015NM Prep | |
| MB 880-19727/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-19727/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-19727/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-11404-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-11404-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

GC Semi VOA

Analysis Batch: 19777

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1957-6 | BH04A | Total/NA | Solid | 8015B NM | 19727 |
| MB 880-19727/1-A | Method Blank | Total/NA | Solid | 8015B NM | 19727 |
| LCS 880-19727/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 19727 |
| LCSD 880-19727/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 19727 |
| 880-11404-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 19727 |
| 880-11404-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 19727 |

Analysis Batch: 19782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-2 | BH01A | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-3 | BH03 | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-4 | BH03A | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-5 | BH04 | Total/NA | Solid | 8015B NM | 19786 |
| MB 880-19786/1-A | Method Blank | Total/NA | Solid | 8015B NM | 19786 |
| LCS 880-19786/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 19786 |
| LCSD 880-19786/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-1 MS | BH01 | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-1 MSD | BH01 | Total/NA | Solid | 8015B NM | 19786 |

Prep Batch: 19786

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1957-2 | BH01A | Total/NA | Solid | 8015NM Prep | |
| 890-1957-3 | BH03 | Total/NA | Solid | 8015NM Prep | |
| 890-1957-4 | BH03A | Total/NA | Solid | 8015NM Prep | |
| 890-1957-5 | BH04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-19786/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-19786/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-19786/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1957-1 MS | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1957-1 MSD | BH01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 19842

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1957-1 | BH01 | Total/NA | Solid | 8015 NM | |
| 890-1957-2 | BH01A | Total/NA | Solid | 8015 NM | |
| 890-1957-3 | BH03 | Total/NA | Solid | 8015 NM | |
| 890-1957-4 | BH03A | Total/NA | Solid | 8015 NM | |
| 890-1957-5 | BH04 | Total/NA | Solid | 8015 NM | |
| 890-1957-6 | BH04A | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 19804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-1957-1 | BH01 | Soluble | Solid | DI Leach | |
| 890-1957-2 | BH01A | Soluble | Solid | DI Leach | |
| 890-1957-3 | BH03 | Soluble | Solid | DI Leach | |
| 890-1957-4 | BH03A | Soluble | Solid | DI Leach | |
| 890-1957-5 | BH04 | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

HPLC/IC (Continued)

Leach Batch: 19804 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1957-6 | BH04A | Soluble | Solid | DI Leach | |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 19937

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1957-1 | BH01 | Soluble | Solid | 300.0 | 19804 |
| 890-1957-2 | BH01A | Soluble | Solid | 300.0 | 19804 |
| 890-1957-3 | BH03 | Soluble | Solid | 300.0 | 19804 |
| 890-1957-4 | BH03A | Soluble | Solid | 300.0 | 19804 |
| 890-1957-5 | BH04 | Soluble | Solid | 300.0 | 19804 |
| 890-1957-6 | BH04A | Soluble | Solid | 300.0 | 19804 |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | 300.0 | 19804 |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 19804 |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 19804 |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH01

Lab Sample ID: 890-1957-1

Date Collected: 02/14/22 13:42

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 01:22 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 10:48 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 20:50 | CH | XEN MID |

Client Sample ID: BH01A

Lab Sample ID: 890-1957-2

Date Collected: 02/14/22 13:44

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 01:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 16:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 20:56 | CH | XEN MID |

Client Sample ID: BH03

Lab Sample ID: 890-1957-3

Date Collected: 02/14/22 13:57

Matrix: Solid

Date Received: 02/16/22 11:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 02:03 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 17:02 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:03 | CH | XEN MID |

Client Sample ID: BH03A

Lab Sample ID: 890-1957-4

Date Collected: 02/14/22 13:59

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 02:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Client Sample ID: BH03A

Lab Sample ID: 890-1957-4

Date Collected: 02/14/22 13:59

Matrix: Solid

Date Received: 02/16/22 11:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 17:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:22 | CH | XEN MID |

Client Sample ID: BH04

Lab Sample ID: 890-1957-5

Date Collected: 02/14/22 13:50

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 02:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 18:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:28 | CH | XEN MID |

Client Sample ID: BH04A

Lab Sample ID: 890-1957-6

Date Collected: 02/14/22 13:52

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 19726 | 02/18/22 14:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 19783 | 02/20/22 03:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20009 | 02/21/22 19:46 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19842 | 02/18/22 17:26 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 19727 | 02/17/22 14:25 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19777 | 02/18/22 18:07 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:34 | CH | XEN MID |

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
 SDG: 31403720.00

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010h

Job ID: 890-1957-1
SDG: 31403720.00

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1957-1 | BH01 | Solid | 02/14/22 13:42 | 02/16/22 11:05 | 1 |
| 890-1957-2 | BH01A | Solid | 02/14/22 13:44 | 02/16/22 11:05 | 2 |
| 890-1957-3 | BH03 | Solid | 02/14/22 13:57 | 02/16/22 11:05 | 1 |
| 890-1957-4 | BH03A | Solid | 02/14/22 13:59 | 02/16/22 11:05 | 2 |
| 890-1957-5 | BH04 | Solid | 02/14/22 13:50 | 02/16/22 11:05 | 1 |
| 890-1957-6 | BH04A | Solid | 02/14/22 13:52 | 02/16/22 11:05 | 2 |

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



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
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-820-2000)

Chain of Custody

Work Order No:

Page 1 of 1

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

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

Project Name: Macho Nacho State Com 010H Turn Around
Project Number: 31403720.00 Routine
P.O. Number: Rush:
Sampler's Name: Payton Benner Due Date:
SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No
Temperature (°C): 21.6 / 8.4 Thermometer ID
Received Inact: Yes No Correction Factor: 1.000
Greater Custody Seals: Yes No N/A Total Containers: 0.2
Sample Custody Seals: Yes No N/A



890-1957 Chain of Custody

ANALYSIS REQUEST
TAT starts the day received 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 |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|-----------------|
| BH01 | S | 02/14/22 | 13:42 | 1 | 1 | X | X | X | DISCRETE |
| BH01A | S | 02/14/22 | 13:44 | 2 | 1 | X | X | X | DISCRETE |
| BH03 | S | 02/14/22 | 13:57 | 1 | 1 | X | X | X | DISCRETE |
| BH03A | S | 02/14/22 | 13:59 | 2 | 1 | X | X | X | DISCRETE |
| BH04 | S | 02/14/22 | 13:50 | 1 | 1 | X | X | X | DISCRETE |
| BH04A | S | 02/14/22 | 13:52 | 2 | 1 | X | X | X | DISCRETE |

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

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

Relinquished by: (Signature) Received by: (Signature) Date/Time
1. [Signature] [Signature] 02/14/22 10:55
2. [Signature] [Signature]
3. [Signature] [Signature]
4. [Signature] [Signature]
5. [Signature] [Signature]
6. [Signature] [Signature]

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

Chain of Custody Record



eurofins
 Environment Testing
 America

| | | | | | | | | | |
|--|----------------------------|---|-------------------------------------|--|--|--|-----------------------------------|-----------------------------------|-----------------------------------|
| Client Information (Sub Contract Lab) | | Sampler | Lab PM | Carrier Tracking No(s) | COC No | | | | |
| Client Contact: | Phone | Kramer, Jessica | E-Mail | issica.kramer@eurofinsnet.com | 890-628-1 | | | | |
| Shipping/Receiving | Address | Eurofins Environment Testing South Cent | | State of Origin | Page 1 of 1 | | | | |
| | 1211 W Florida Ave | Due Date Requested | NELAP - Louisiana, NELAP - Texas | | Job # | | | | |
| City: | Milford | 2/22/2022 | Accreditations Required (See note): | | 890-1957-1 | | | | |
| State Zip: | TX 79701 | TAT Requested (day/s): | NELAP - Louisiana, NELAP - Texas | | Preservation Codes | | | | |
| Phone: | 432-704-5440(Tel) | PO #: | Analysis Requested | | A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amherst H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other: | | | | |
| Email: | | WO #: | | | 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) | | | | |
| Project Name: | Macho Nacho State Com 010h | Project #: | | | | | | | |
| Site: | | SSOW#: | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waterfall, B=Truck, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of containers | Special Instructions/Note: |
| BH01 (890-1957-1) | 2/14/22 | 13:42 | Mountain | Solid | | X | X | X | |
| BH01A (890-1957-2) | 2/14/22 | 13:44 | Mountain | Solid | | X | X | X | |
| BH03 (890-1957-3) | 2/14/22 | 13:57 | Mountain | Solid | | X | X | X | |
| BH03A (890-1957-4) | 2/14/22 | 13:59 | Mountain | Solid | | X | X | X | |
| BH04 (890-1957-5) | 2/14/22 | 13:50 | Mountain | Solid | | X | X | X | |
| BH04A (890-1957-6) | 2/14/22 | 13:52 | Mountain | Solid | | X | X | X | |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/parameter being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.</p> | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | |
| Unconfirmed | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | |
| Deliverable Requested I II III IV Other (specify) | | | | | Primary Deliverable Rank: 2 | | | | |
| Empty Kit Relinquished by: | | Date | Time | Method of Shipment: | | | | | |
| Relinquished by: <i>Joe Mayo 2-16-22</i> | | Date/Time: | | Received by: <i>J. Kramer</i> | | Date/Time: | | Company: | |
| Relinquished by: | | Date/Time: | | Received by: | | Date/Time: | | Company: | |
| Relinquished by: | | Date/Time: | | Received by: | | Date/Time: | | Company: | |
| Custody Seals Intact: A Yes A No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1957-1

SDG Number: 31403720.00

Login Number: 1957

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1957-1

SDG Number: 31403720.00

Login Number: 1957

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 02/17/22 01:10 PM

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

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Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1959-1
Laboratory Sample Delivery Group: 31403720.00
Client Project/Site: Macho Nacho State Com 010H

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

Attn: Kalei Jennings

Authorized for release by:
2/28/2022 7:07:36 PM

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



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

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

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Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Laboratory Job ID: 890-1959-1
SDG: 31403720.00

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| *1 | LCS/LCSD 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. |

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Job ID: 890-1959-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-1959-1****Receipt**

The samples were received on 2/16/2022 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

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 laboratory control sample (LCS) associated with preparation batch 880-19786 and analytical batch 880-19782 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1957-A-1-C MS) and (890-1957-A-1-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.

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: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Client Sample ID: BH02

Lab Sample ID: 890-1959-1

Date Collected: 02/14/22 12:23

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:18 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 01:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 01:18 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 02/25/22 13:43 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 02/18/22 20:05 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:27 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 18:27 | 1 |
| o-Terphenyl | 80 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 18:27 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 28.6 | | 4.97 | mg/Kg | | | 02/21/22 21:41 | 1 |

Client Sample ID: BH05

Lab Sample ID: 890-1959-2

Date Collected: 02/14/22 12:44

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 02/24/22 09:39 | 02/25/22 01:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 130 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 01:38 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
 SDG: 31403720.00

Client Sample ID: BH05

Lab Sample ID: 890-1959-2

Date Collected: 02/14/22 12:44

Matrix: Solid

Date Received: 02/16/22 11:05

Sample Depth: 1

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 02/24/22 09:39 | 02/25/22 01:38 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 02/25/22 13:43 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 02/18/22 20:05 | 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 | | 02/18/22 08:34 | 02/18/22 18:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U ** *1 | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 02/18/22 08:34 | 02/18/22 18:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 18:48 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | 02/18/22 08:34 | 02/18/22 18:48 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 13.6 | | 4.96 | mg/Kg | | | 02/21/22 21:47 | 1 |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-11351-A-1-C MS | Matrix Spike | 101 | 99 |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | 104 | 100 |
| 890-1959-1 | BH02 | 101 | 97 |
| 890-1959-2 | BH05 | 130 | 88 |
| LCS 880-20192/1-A | Lab Control Sample | 102 | 99 |
| LCSD 880-20192/2-A | Lab Control Sample Dup | 104 | 101 |
| MB 880-19723/5-A | Method Blank | 99 | 95 |
| MB 880-20192/5-A | Method Blank | 98 | 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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1957-A-1-C MS | Matrix Spike | 71 | 66 S1- |
| 890-1957-A-1-D MSD | Matrix Spike Duplicate | 68 S1- | 62 S1- |
| 890-1959-1 | BH02 | 81 | 80 |
| 890-1959-2 | BH05 | 98 | 97 |

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-19786/2-A | Lab Control Sample | 141 S1+ | 140 S1+ |
| LCSD 880-19786/3-A | Lab Control Sample Dup | 175 S1+ | 174 S1+ |
| MB 880-19786/1-A | Method Blank | 83 | 87 |

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-19723/5-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19723

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | 02/24/22 07:45 | 02/24/22 11:10 | 1 |

Lab Sample ID: MB 880-20192/5-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | 02/24/22 09:39 | 02/24/22 22:54 | 1 |

Lab Sample ID: LCS 880-20192/1-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|---------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Toluene | 0.100 | 0.1080 | | mg/Kg | | 108 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1082 | | mg/Kg | | 108 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2226 | | mg/Kg | | 111 | 70 - 130 |
| o-Xylene | 0.100 | 0.1088 | | mg/Kg | | 109 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-20192/2-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | RPD | Limit |
| Benzene | 0.100 | 0.1056 | | mg/Kg | | 106 | 70 - 130 | 4 | 35 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

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

Lab Sample ID: LCSD 880-20192/2-A
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | |
| Toluene | 0.100 | 0.1044 | | mg/Kg | | 104 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.1037 | | mg/Kg | | 104 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2138 | | mg/Kg | | 107 | 70 - 130 | 4 | 35 |
| o-Xylene | 0.100 | 0.1055 | | mg/Kg | | 105 | 70 - 130 | 3 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: 880-11351-A-1-C MS
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.1030 | | mg/Kg | | 103 | 70 - 130 | | |
| Toluene | <0.00199 | U | 0.0996 | 0.1018 | | mg/Kg | | 102 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.1002 | | mg/Kg | | 101 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.2090 | | mg/Kg | | 105 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.1073 | | mg/Kg | | 108 | 70 - 130 | | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Lab Sample ID: 880-11351-A-1-D MSD
Matrix: Solid
Analysis Batch: 20184

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20192

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Benzene | <0.00199 | U | 0.0998 | 0.1114 | | mg/Kg | | 112 | 70 - 130 | 8 | 35 |
| Toluene | <0.00199 | U | 0.0998 | 0.1105 | | mg/Kg | | 111 | 70 - 130 | 8 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.1094 | | mg/Kg | | 110 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.2279 | | mg/Kg | | 114 | 70 - 130 | 9 | 35 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.1154 | | mg/Kg | | 116 | 70 - 130 | 7 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-19786/1-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

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

Lab Sample ID: MB 880-19786/1-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| Surrogate | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | 02/18/22 08:34 | 02/18/22 09:43 | 1 |

Lab Sample ID: LCS 880-19786/2-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1360 | *+ | mg/Kg | | 136 | 70 - 130 |
| Surrogate | LCS | LCS | Limits | | | | |
| | %Recovery | Qualifier | | | | | |
| 1-Chlorooctane | 141 | S1+ | 70 - 130 | | | | |
| o-Terphenyl | 140 | S1+ | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-19786/3-A
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1708 | ** *1 | mg/Kg | | 171 | 70 - 130 | 23 | 20 |
| Surrogate | LCSD | LCSD | Limits | | | | | | |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 175 | S1+ | 70 - 130 | | | | | | |
| o-Terphenyl | 174 | S1+ | 70 - 130 | | | | | | |

Lab Sample ID: 890-1957-A-1-C MS
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 1000 | 1197 | | mg/Kg | | 120 | 70 - 130 |
| Surrogate | MS | MS | Limits | | | | | | |
| | %Recovery | Qualifier | | | | | | | |
| 1-Chlorooctane | 71 | | 70 - 130 | | | | | | |
| o-Terphenyl | 66 | S1- | 70 - 130 | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

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

Lab Sample ID: 890-1957-A-1-D MSD
Matrix: Solid
Analysis Batch: 19782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19786

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|----------------------|---------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U ** *1 | 998 | 948.8 | | mg/Kg | | 93 | 70 - 130 | 6 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U ** *1 | 998 | 1145 | | mg/Kg | | 115 | 70 - 130 | 4 | 20 |
| Surrogate | %Recovery | MSD Qualifier | MSD Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 68 | S1- | | 70 - 130 | | | | | | | |
| o-Terphenyl | 62 | S1- | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19804/1-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-19804/2-A
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-19804/3-A
Matrix: Solid
Analysis Batch: 19937

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

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

Lab Sample ID: 880-11403-A-1-B MS
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 2530 | | 5000 | 7764 | | mg/Kg | | 105 | 90 - 110 |

Lab Sample ID: 880-11403-A-1-C MSD
Matrix: Solid
Analysis Batch: 19937

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 2530 | | 5000 | 7955 | | mg/Kg | | 108 | 90 - 110 | 2 | 20 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

GC VOA

Prep Batch: 19723

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19723/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 20184

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | 8021B | 20192 |
| 890-1959-2 | BH05 | Total/NA | Solid | 8021B | 20192 |
| MB 880-19723/5-A | Method Blank | Total/NA | Solid | 8021B | 19723 |
| MB 880-20192/5-A | Method Blank | Total/NA | Solid | 8021B | 20192 |
| LCS 880-20192/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 20192 |
| LCSD 880-20192/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 20192 |
| 880-11351-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 20192 |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 20192 |

Prep Batch: 20192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | 5035 | |
| 890-1959-2 | BH05 | Total/NA | Solid | 5035 | |
| MB 880-20192/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-20192/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-20192/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-11351-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-11351-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 20324

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | Total BTEX | |
| 890-1959-2 | BH05 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 19782

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | 8015B NM | 19786 |
| 890-1959-2 | BH05 | Total/NA | Solid | 8015B NM | 19786 |
| MB 880-19786/1-A | Method Blank | Total/NA | Solid | 8015B NM | 19786 |
| LCS 880-19786/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 19786 |
| LCSD 880-19786/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 19786 |
| 890-1957-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 19786 |

Prep Batch: 19786

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | 8015NM Prep | |
| 890-1959-2 | BH05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-19786/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-19786/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-19786/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1957-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1957-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

GC Semi VOA

Analysis Batch: 19857

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1959-1 | BH02 | Total/NA | Solid | 8015 NM | |
| 890-1959-2 | BH05 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 19804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1959-1 | BH02 | Soluble | Solid | DI Leach | |
| 890-1959-2 | BH05 | Soluble | Solid | DI Leach | |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 19937

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1959-1 | BH02 | Soluble | Solid | 300.0 | 19804 |
| 890-1959-2 | BH05 | Soluble | Solid | 300.0 | 19804 |
| MB 880-19804/1-A | Method Blank | Soluble | Solid | 300.0 | 19804 |
| LCS 880-19804/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 19804 |
| LCSD 880-19804/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 19804 |
| 880-11403-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 19804 |

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
 SDG: 31403720.00

Client Sample ID: BH02

Lab Sample ID: 890-1959-1

Date Collected: 02/14/22 12:23

Matrix: Solid

Date Received: 02/16/22 11:05

| 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 | 20192 | 02/24/22 09:39 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 20184 | 02/25/22 01:18 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20324 | 02/25/22 13:43 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19857 | 02/18/22 20:05 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 18:27 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:41 | CH | XEN MID |

Client Sample ID: BH05

Lab Sample ID: 890-1959-2

Date Collected: 02/14/22 12:44

Matrix: Solid

Date Received: 02/16/22 11:05

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 20192 | 02/24/22 09:39 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 20184 | 02/25/22 01:38 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 20324 | 02/25/22 13:43 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 19857 | 02/18/22 20:05 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 19786 | 02/18/22 08:34 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 19782 | 02/18/22 18:48 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 19804 | 02/18/22 10:28 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 19937 | 02/21/22 21:47 | CH | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1959-1
SDG: 31403720.00

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1959-1 | BH02 | Solid | 02/14/22 12:23 | 02/16/22 11:05 | 1 |
| 890-1959-2 | BH05 | Solid | 02/14/22 12:44 | 02/16/22 11:05 | 1 |

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

Chain of Custody

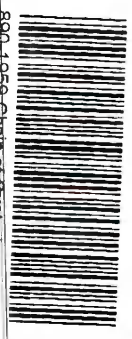
Work Order No: _____

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

| | |
|-------------------|---|
| Program: | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project: | Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Reporting Level: | Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |

| | | | |
|-----------------|----------------------------|----------------------------------|------------------|
| Project Name: | Macho Nacho State Com 010H | Turn Around | ANALYSIS REQUEST |
| Project Number: | 31403720.00 | Routine <input type="checkbox"/> | |
| P.O. Number: | | Rush: _____ | |
| Sampler's Name: | Payton Benner | Due Date: | |

| | | | |
|-----------------------|--|--------------------|---|
| Temp Blank: | <input checked="" type="radio"/> Yes <input type="radio"/> No | Wet Ice: | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Temperature (°C): | 26/2.4 | Thermometer ID | 7704-002 |
| Received Inact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | -0.2 |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | Total Containers: | 0.2 |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | | |



890-1959-Chain of Custody

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

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | | | | | | | | | | Sample Comments | | |
|-----------------------|--------|--------------|--------------|-------|----------------------|-------------------|----------------------|--|--|--|--|--|--|--|--|-----------------|--|----------|
| | | | | | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | | | | | | | | | | | |
| BH02 | S | 02/18/22 | 12:23 | 1 | X | X | X | | | | | | | | | | | DISCRETE |
| BH05 | S | 02/18/22 | 12:44 | 1 | X | X | X | | | | | | | | | | | DISCRETE |

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

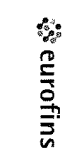
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility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

| | | | | | |
|------------------------------|--------------------------|---------------------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 2-16-22 1105 ² | | | |

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing America

| Client Information (Sub Contract Lab) | | Sampler | Lab P/N | Kramer Jessica | Carrier Tracking No(s) | COCC No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|---|---------------------------------|---|-----------------------------------|--------------|--|-------------|-------------|------------------------------|---|-----------------------------------|--|----------------------------|----------------------------|----------------------------|----------------------------|-------------------|-----------|-----|-----|-------------------|---------|-------|----------|-------|---|---|---|---|---|--|-------------------|---------|-------|----------|-------|---|---|---|---|---|--|
| Client Contact: | | Phone | E-Mail | Jessica.kramer@eurofinsnet.com | State of Origin: | 890-628-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipping/Receiving | | Eurofins Environment Testing South Cent | | Accreditations Required (See note): | NEW Mexico | Page: 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | | Due Date Requested | NELAP - Louisiana NELAP - Texas | | Job #: | 890-1959-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1211 W Florida Ave | | 2/22/2022 | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | Midland | TAT Requested (days): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State, Zip: | TX, 79701 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: | 432-704-5440(Tel) | PO #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: | | W/O #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | Machio Nacho State Com 010h | Project #: | 89000048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: | | SSOW#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th rowspan="2">Sample Identification - Client ID (Lab ID)</th> <th rowspan="2">Sample Date</th> <th rowspan="2">Sample Time</th> <th rowspan="2">Sample Type (C=Comp, G=Grab)</th> <th rowspan="2">Matrix (Water, Soil, Overstool, BT-Tissue, Ash)</th> <th colspan="2">Field Filtered Sample (Yes or No)</th> <th colspan="2">Perform MS/MSD (Yes or No)</th> <th rowspan="2">Total Number of containers</th> <th rowspan="2">Special Instructions/Note:</th> </tr> <tr> <th>Preservation Code</th> <th>BT-Tissue</th> <th>ASh</th> <th>ASh</th> </tr> </thead> <tbody> <tr> <td>BH02 (890-1959-1)</td> <td>2/14/22</td> <td>12 23</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>BH05 (890-1959-2)</td> <td>2/14/22</td> <td>12 44</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </tbody> </table> | | | | | | | Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix (Water, Soil, Overstool, BT-Tissue, Ash) | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of containers | Special Instructions/Note: | Preservation Code | BT-Tissue | ASh | ASh | BH02 (890-1959-1) | 2/14/22 | 12 23 | Mountain | Solid | X | X | X | X | 1 | | BH05 (890-1959-2) | 2/14/22 | 12 44 | Mountain | Solid | X | X | X | X | 1 | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix (Water, Soil, Overstool, BT-Tissue, Ash) | Field Filtered Sample (Yes or No) | | | | | | | Perform MS/MSD (Yes or No) | | Total Number of containers | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Preservation Code | BT-Tissue | ASh | ASh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH02 (890-1959-1) | 2/14/22 | 12 23 | Mountain | Solid | X | X | X | X | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05 (890-1959-2) | 2/14/22 | 12 44 | Mountain | Solid | X | X | X | X | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analyst/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unconfirmed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by | | Date/Time | Date | Time | Method of Shipment: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by | Date/Time | Company | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by | Date/Time | Company | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact: | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Δ Yes Δ No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1959-1

SDG Number: 31403720.00

Login Number: 1959

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1959-1
SDG Number: 31403720.00

Login Number: 1959
List Number: 2
Creator: Kramer, Jessica

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

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

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Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2798-1
Laboratory Sample Delivery Group: 03D2024008
Client Project/Site: Macho Nacho #10 CTB

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

Authorized for release by:
8/25/2022 2:42:56 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

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Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Laboratory Job ID: 890-2798-1
SDG: 03D2024008

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Definitions/Glossary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Job ID: 890-2798-1

Laboratory: Eurofins Carlsbad**Narrative**

Job Narrative
890-2798-1

Receipt

The samples were received on 8/23/2022 8:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32845 and analytical batch 880-32874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits. The associated samples are: BH02A (890-2798-1), BH05A (890-2798-2), FS01 (890-2798-3), FS02 (890-2798-4), FS03 (890-2798-5), FS04 (890-2798-6), FS05 (890-2798-7) and (890-2798-A-1-E MSD).

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



Client Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: BH02A

Lab Sample ID: 890-2798-1

Date Collected: 08/22/22 10:30

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 16:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 16:07 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 12:50 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 12:50 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 12:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 12:50 | 1 |
| o-Terphenyl | 89 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 12:50 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 22.4 | F1 F2 | 4.96 | mg/Kg | | | 08/24/22 21:32 | 1 |

Client Sample ID: BH05A

Lab Sample ID: 890-2798-2

Date Collected: 08/22/22 10:35

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 08/24/22 10:24 | 08/24/22 16:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 16:38 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: BH05A

Lab Sample ID: 890-2798-2

Date Collected: 08/22/22 10:35

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 2

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 16:38 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 08/24/22 16:56 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 51.1 | | 49.9 | mg/Kg | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 13:12 | 1 |
| Diesel Range Organics (Over C10-C28) | 51.1 | | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:12 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 79 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:12 | 1 |
| o-Terphenyl | 85 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:12 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 8.15 | | 4.99 | mg/Kg | | | 08/24/22 21:56 | 1 |

Client Sample ID: FS01

Lab Sample ID: 890-2798-3

Date Collected: 08/22/22 12:00

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 17:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 17:04 | 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 | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: FS01

Lab Sample ID: 890-2798-3

Date Collected: 08/22/22 12:00

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 1

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:34 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:34 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:34 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:34 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 8.97 | | 4.97 | mg/Kg | | | 08/24/22 22:03 | 1 |

Client Sample ID: FS02

Lab Sample ID: 890-2798-4

Date Collected: 08/22/22 12:05

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 83 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 17:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 124 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 17:30 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 13:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:55 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 13:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:55 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 13:55 | 1 |

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Client Sample Results

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

Client Sample ID: FS02

Lab Sample ID: 890-2798-4

Date Collected: 08/22/22 12:05
 Date Received: 08/23/22 08:18
 Sample Depth: 1

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 9.11 | | 4.97 | mg/Kg | | | 08/24/22 22:11 | 1 |

Client Sample ID: FS03

Lab Sample ID: 890-2798-5

Date Collected: 08/22/22 12:10
 Date Received: 08/23/22 08:18
 Sample Depth: 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 | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | 08/24/22 10:24 | 08/24/22 17:56 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 14:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 14:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 14:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 08/24/22 08:38 | 08/24/22 14:17 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | | | 08/24/22 08:38 | 08/24/22 14:17 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 25.8 | | 5.00 | mg/Kg | | | 08/24/22 22:19 | 1 |

Client Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: FS04

Lab Sample ID: 890-2798-6

Date Collected: 08/22/22 12:35

Matrix: Solid

Date Received: 08/23/22 08:18

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 | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 08/24/22 10:24 | 08/24/22 18:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 18:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 18:22 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 14:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 14:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 14:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 14:38 | 1 |
| o-Terphenyl | 85 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 14:38 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 13.7 | | 5.01 | mg/Kg | | | 08/24/22 22:43 | 1 |

Client Sample ID: FS05

Lab Sample ID: 890-2798-7

Date Collected: 08/22/22 12:45

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/24/22 10:24 | 08/24/22 20:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 20:07 | 1 |

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Client Sample Results

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

Client Sample ID: FS05

Lab Sample ID: 890-2798-7

Date Collected: 08/22/22 12:45

Matrix: Solid

Date Received: 08/23/22 08:18

Sample Depth: 1

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 20:07 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/24/22 16:56 | 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 | | | 08/24/22 21:20 | 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 | | 08/24/22 08:38 | 08/24/22 15:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 15:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/24/22 08:38 | 08/24/22 15:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 15:00 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 15:00 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 14.5 | | 5.04 | mg/Kg | | | 08/24/22 22:51 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-2798-1 | BH02A | 110 | 95 |
| 890-2798-2 | BH05A | 93 | 98 |
| 890-2798-3 | FS01 | 101 | 93 |
| 890-2798-4 | FS02 | 83 | 124 |
| 890-2798-5 | FS03 | 111 | 95 |
| 890-2798-6 | FS04 | 112 | 94 |
| 890-2798-7 | FS05 | 105 | 92 |
| 890-2802-A-1-A MS | Matrix Spike | 110 | 103 |
| 890-2802-A-1-B MSD | Matrix Spike Duplicate | 109 | 98 |
| LCS 880-32835/1-A | Lab Control Sample | 100 | 101 |
| LCSD 880-32835/2-A | Lab Control Sample Dup | 104 | 107 |
| MB 880-32835/5-A | Method Blank | 80 | 88 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-18436-A-1-E MS | Matrix Spike | 82 | 81 |
| 880-18436-A-1-F MSD | Matrix Spike Duplicate | 83 | 82 |
| 890-2798-1 | BH02A | 81 | 89 |
| 890-2798-2 | BH05A | 79 | 85 |
| 890-2798-3 | FS01 | 78 | 84 |
| 890-2798-4 | FS02 | 85 | 94 |
| 890-2798-5 | FS03 | 83 | 90 |
| 890-2798-6 | FS04 | 78 | 85 |
| 890-2798-7 | FS05 | 85 | 92 |
| LCS 880-32816/2-A | Lab Control Sample | 95 | 104 |
| LCSD 880-32816/3-A | Lab Control Sample Dup | 105 | 117 |
| MB 880-32816/1-A | Method Blank | 93 | 107 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32835/5-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 08/24/22 10:24 | 08/24/22 13:56 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 13:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 08/24/22 10:24 | 08/24/22 13:56 | 1 |

Lab Sample ID: LCS 880-32835/1-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.09463 | | mg/Kg | | 95 | 70 - 130 |
| Toluene | 0.100 | 0.09936 | | mg/Kg | | 99 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09277 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1944 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | 0.100 | 0.1080 | | mg/Kg | | 108 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 880-32835/2-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene | 0.100 | 0.1047 | | mg/Kg | | 105 | 70 - 130 | 10 | 35 |
| Toluene | 0.100 | 0.1049 | | mg/Kg | | 105 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.1031 | | mg/Kg | | 103 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2127 | | mg/Kg | | 106 | 70 - 130 | 9 | 35 |
| o-Xylene | 0.100 | 0.1178 | | mg/Kg | | 118 | 70 - 130 | 9 | 35 |

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

Lab Sample ID: 890-2802-A-1-A MS
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00201 | U | 0.100 | 0.09061 | | mg/Kg | | 90 | 70 - 130 |
| Toluene | <0.00201 | U | 0.100 | 0.09967 | | mg/Kg | | 99 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

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

Lab Sample ID: 890-2802-A-1-A MS
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00201 | U | 0.100 | 0.09369 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1929 | | mg/Kg | | 96 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.1046 | | mg/Kg | | 104 | 70 - 130 |

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

Lab Sample ID: 890-2802-A-1-B MSD
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32835

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00201 | U | 0.0990 | 0.08856 | | mg/Kg | | 89 | 70 - 130 | 2 | 35 |
| Toluene | <0.00201 | U | 0.0990 | 0.09614 | | mg/Kg | | 97 | 70 - 130 | 4 | 35 |
| Ethylbenzene | <0.00201 | U | 0.0990 | 0.09122 | | mg/Kg | | 92 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.198 | 0.1855 | | mg/Kg | | 94 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00201 | U | 0.0990 | 0.1006 | | mg/Kg | | 102 | 70 - 130 | 4 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

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

Lab Sample ID: MB 880-32816/1-A
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32816

| 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 | | 08/24/22 08:38 | 08/24/22 10:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 10:43 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/24/22 08:38 | 08/24/22 10:43 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|-----------|----------------|----------------|---------|
| 1-Chlorooctane | 93 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 10:43 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | 08/24/22 08:38 | 08/24/22 10:43 | 1 |

Lab Sample ID: LCS 880-32816/2-A
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32816

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1002 | | mg/Kg | | 100 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 880.5 | | mg/Kg | | 88 | 70 - 130 |

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QC Sample Results

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

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

Lab Sample ID: LCS 880-32816/2-A
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32816

| Surrogate | LCS | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 95 | | 70 - 130 |
| o-Terphenyl | 104 | | 70 - 130 |

Lab Sample ID: LCSD 880-32816/3-A
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32816

| Analyte | Spike Added | LCSD | | Unit | D | %Rec | %Rec | | RPD | Limit |
|--------------------------------------|-------------|--------|-----------|-------|---|------|----------|-----|-----|-------|
| | | Result | Qualifier | | | | Limits | RPD | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1106 | | mg/Kg | | 111 | 70 - 130 | 10 | | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1016 | | mg/Kg | | 102 | 70 - 130 | 14 | | 20 |

| Surrogate | LCSD | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 105 | | 70 - 130 |
| o-Terphenyl | 117 | | 70 - 130 |

Lab Sample ID: 880-18436-A-1-E MS
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32816

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS | | Unit | D | %Rec | %Rec | | RPD | Limit |
|--------------------------------------|---------------|------------------|-------------|--------|-----------|-------|---|------|----------|-----|-----|-------|
| | | | | Result | Qualifier | | | | Limits | RPD | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 1040 | | mg/Kg | | 102 | 70 - 130 | | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 743.4 | | mg/Kg | | 70 | 70 - 130 | | | |

| Surrogate | MS | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 82 | | 70 - 130 |
| o-Terphenyl | 81 | | 70 - 130 |

Lab Sample ID: 880-18436-A-1-F MSD
Matrix: Solid
Analysis Batch: 32812

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32816

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD | | Unit | D | %Rec | %Rec | | RPD | Limit |
|--------------------------------------|---------------|------------------|-------------|--------|-----------|-------|---|------|----------|-----|-----|-------|
| | | | | Result | Qualifier | | | | Limits | RPD | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 1139 | | mg/Kg | | 112 | 70 - 130 | 9 | | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 744.0 | | mg/Kg | | 70 | 70 - 130 | 0 | | 20 |

| Surrogate | MSD | | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 83 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

QC Sample Results

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32845/1-A
 Matrix: Solid
 Analysis Batch: 32874

Client Sample ID: Method Blank
 Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 08/24/22 21:08 | 1 |

Lab Sample ID: LCS 880-32845/2-A
 Matrix: Solid
 Analysis Batch: 32874

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 234.1 | | mg/Kg | | 94 | 90 - 110 |

Lab Sample ID: LCSD 880-32845/3-A
 Matrix: Solid
 Analysis Batch: 32874

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250 | 234.4 | | mg/Kg | | 94 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-2798-1 MS
 Matrix: Solid
 Analysis Batch: 32874

Client Sample ID: BH02A
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 22.4 | F1 F2 | 248 | 278.9 | | mg/Kg | | 103 | 90 - 110 |

Lab Sample ID: 890-2798-1 MSD
 Matrix: Solid
 Analysis Batch: 32874

Client Sample ID: BH02A
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 22.4 | F1 F2 | 248 | 213.1 | F1 F2 | mg/Kg | | 77 | 90 - 110 | 27 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

GC VOA

Analysis Batch: 32815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | 8021B | 32835 |
| 890-2798-2 | BH05A | Total/NA | Solid | 8021B | 32835 |
| 890-2798-3 | FS01 | Total/NA | Solid | 8021B | 32835 |
| 890-2798-4 | FS02 | Total/NA | Solid | 8021B | 32835 |
| 890-2798-5 | FS03 | Total/NA | Solid | 8021B | 32835 |
| 890-2798-6 | FS04 | Total/NA | Solid | 8021B | 32835 |
| 890-2798-7 | FS05 | Total/NA | Solid | 8021B | 32835 |
| MB 880-32835/5-A | Method Blank | Total/NA | Solid | 8021B | 32835 |
| LCS 880-32835/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 32835 |
| LCSD 880-32835/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 32835 |
| 890-2802-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 32835 |
| 890-2802-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 32835 |

Prep Batch: 32835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | 5035 | |
| 890-2798-2 | BH05A | Total/NA | Solid | 5035 | |
| 890-2798-3 | FS01 | Total/NA | Solid | 5035 | |
| 890-2798-4 | FS02 | Total/NA | Solid | 5035 | |
| 890-2798-5 | FS03 | Total/NA | Solid | 5035 | |
| 890-2798-6 | FS04 | Total/NA | Solid | 5035 | |
| 890-2798-7 | FS05 | Total/NA | Solid | 5035 | |
| MB 880-32835/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-32835/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-32835/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2802-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2802-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 32869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | Total BTEX | |
| 890-2798-2 | BH05A | Total/NA | Solid | Total BTEX | |
| 890-2798-3 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-2798-4 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-2798-5 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-2798-6 | FS04 | Total/NA | Solid | Total BTEX | |
| 890-2798-7 | FS05 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 32812

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-2 | BH05A | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-3 | FS01 | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-4 | FS02 | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-5 | FS03 | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-6 | FS04 | Total/NA | Solid | 8015B NM | 32816 |
| 890-2798-7 | FS05 | Total/NA | Solid | 8015B NM | 32816 |
| MB 880-32816/1-A | Method Blank | Total/NA | Solid | 8015B NM | 32816 |
| LCS 880-32816/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 32816 |

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QC Association Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

GC Semi VOA (Continued)

Analysis Batch: 32812 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-32816/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 32816 |
| 880-18436-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 32816 |
| 880-18436-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 32816 |

Prep Batch: 32816

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | 8015NM Prep | |
| 890-2798-2 | BH05A | Total/NA | Solid | 8015NM Prep | |
| 890-2798-3 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2798-4 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-2798-5 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-2798-6 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-2798-7 | FS05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-32816/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-32816/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-32816/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-18436-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-18436-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 32876

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2798-1 | BH02A | Total/NA | Solid | 8015 NM | |
| 890-2798-2 | BH05A | Total/NA | Solid | 8015 NM | |
| 890-2798-3 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-2798-4 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-2798-5 | FS03 | Total/NA | Solid | 8015 NM | |
| 890-2798-6 | FS04 | Total/NA | Solid | 8015 NM | |
| 890-2798-7 | FS05 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 32845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2798-1 | BH02A | Soluble | Solid | DI Leach | |
| 890-2798-2 | BH05A | Soluble | Solid | DI Leach | |
| 890-2798-3 | FS01 | Soluble | Solid | DI Leach | |
| 890-2798-4 | FS02 | Soluble | Solid | DI Leach | |
| 890-2798-5 | FS03 | Soluble | Solid | DI Leach | |
| 890-2798-6 | FS04 | Soluble | Solid | DI Leach | |
| 890-2798-7 | FS05 | Soluble | Solid | DI Leach | |
| MB 880-32845/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-32845/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-32845/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2798-1 MS | BH02A | Soluble | Solid | DI Leach | |
| 890-2798-1 MSD | BH02A | Soluble | Solid | DI Leach | |

Analysis Batch: 32874

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-2798-1 | BH02A | Soluble | Solid | 300.0 | 32845 |
| 890-2798-2 | BH05A | Soluble | Solid | 300.0 | 32845 |
| 890-2798-3 | FS01 | Soluble | Solid | 300.0 | 32845 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

HPLC/IC (Continued)

Analysis Batch: 32874 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2798-4 | FS02 | Soluble | Solid | 300.0 | 32845 |
| 890-2798-5 | FS03 | Soluble | Solid | 300.0 | 32845 |
| 890-2798-6 | FS04 | Soluble | Solid | 300.0 | 32845 |
| 890-2798-7 | FS05 | Soluble | Solid | 300.0 | 32845 |
| MB 880-32845/1-A | Method Blank | Soluble | Solid | 300.0 | 32845 |
| LCS 880-32845/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 32845 |
| LCSD 880-32845/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 32845 |
| 890-2798-1 MS | BH02A | Soluble | Solid | 300.0 | 32845 |
| 890-2798-1 MSD | BH02A | Soluble | Solid | 300.0 | 32845 |

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Lab Chronicle

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: BH02A

Lab Sample ID: 890-2798-1

Date Collected: 08/22/22 10:30

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 16:07 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 12:50 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 21:32 | SMC | EET MID |

Client Sample ID: BH05A

Lab Sample ID: 890-2798-2

Date Collected: 08/22/22 10:35

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 16:38 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 13:12 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 21:56 | SMC | EET MID |

Client Sample ID: FS01

Lab Sample ID: 890-2798-3

Date Collected: 08/22/22 12:00

Matrix: Solid

Date Received: 08/23/22 08:18

| 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 | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 17:04 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 13:34 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 22:03 | SMC | EET MID |

Client Sample ID: FS02

Lab Sample ID: 890-2798-4

Date Collected: 08/22/22 12:05

Matrix: Solid

Date Received: 08/23/22 08:18

| 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 | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 17:30 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

Client Sample ID: FS02

Lab Sample ID: 890-2798-4

Date Collected: 08/22/22 12:05

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 13:55 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 22:11 | SMC | EET MID |

Client Sample ID: FS03

Lab Sample ID: 890-2798-5

Date Collected: 08/22/22 12:10

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 17:56 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 14:17 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 22:19 | SMC | EET MID |

Client Sample ID: FS04

Lab Sample ID: 890-2798-6

Date Collected: 08/22/22 12:35

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 18:22 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 14:38 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 22:43 | SMC | EET MID |

Client Sample ID: FS05

Lab Sample ID: 890-2798-7

Date Collected: 08/22/22 12:45

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 32835 | 08/24/22 10:24 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32815 | 08/24/22 20:07 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32869 | 08/24/22 16:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32876 | 08/24/22 21:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 32816 | 08/24/22 08:38 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32812 | 08/24/22 15:00 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Client Sample ID: FS05

Lab Sample ID: 890-2798-7

Date Collected: 08/22/22 12:45

Matrix: Solid

Date Received: 08/23/22 08:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 32845 | 08/24/22 10:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32874 | 08/24/22 22:51 | SMC | EET MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

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 |

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Method Summary

Client: Ensolum
 Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
 SDG: 03D2024008

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

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



Sample Summary

Client: Ensolum
Project/Site: Macho Nacho #10 CTB

Job ID: 890-2798-1
SDG: 03D2024008

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2798-1 | BH02A | Solid | 08/22/22 10:30 | 08/23/22 08:18 | 2 |
| 890-2798-2 | BH05A | Solid | 08/22/22 10:35 | 08/23/22 08:18 | 2 |
| 890-2798-3 | FS01 | Solid | 08/22/22 12:00 | 08/23/22 08:18 | 1 |
| 890-2798-4 | FS02 | Solid | 08/22/22 12:05 | 08/23/22 08:18 | 1 |
| 890-2798-5 | FS03 | Solid | 08/22/22 12:10 | 08/23/22 08:18 | 1 |
| 890-2798-6 | FS04 | Solid | 08/22/22 12:35 | 08/23/22 08:18 | 1 |
| 890-2798-7 | FS05 | Solid | 08/22/22 12:45 | 08/23/22 08:18 | 1 |

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Environment Testing
Xenoco

Houston, TX (281) 240-4200, Dallas, TX (214) 302-0300
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

Chain of Custody

Work Order No: _____

www.xenoco.com Page 1 of 1

| | | | |
|------------------|---------------------------------|-------------------------|---------------------------------|
| Project Manager: | Kalei Jennings | Bill to: (if different) | Kalei Jennings |
| Company Name: | Ensolum, LLC | Company Name: | Ensolum, LLC |
| Address: | 601 N Marientfield St Suite 400 | Address: | 601 N Marientfield St Suite 400 |
| City, State ZIP: | Midland, TX 79701 | City, State ZIP: | Midland, TX 79701 |
| Phone: | 817-683-2503 | Email: | kjennings@ensolum.com |

| | |
|--|--|
| Work Order Comments | |
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> | State of Project: |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> | Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |

| | | | | | |
|-------------------------|---|---|---|------------------|---|
| Project Name: | Macho Nacho #10 CTB | Turn Around | Press. Code | ANALYSIS REQUEST | Preservative Codes |
| Project Number: | 03D2024008 | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | | | None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NAHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC |
| Project Location: | Comner Shore | Due Date: | 24 Hr | | DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na |
| Sampler's Name: | | TAT starts the day received by the lab, if received by 4:30pm | | | |
| PO #: | | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| SAMPLE RECEIPT | Temp Blank: | Thermometer ID: | 70M-002 | | |
| Samples Received Inlab: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | -0.2 | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading: | 1.5 | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Corrected Temperature: | 1.6 | | |
| Total Containers: | | Corrected Temperature: | | | |



| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|-----------------|
| BH02A | S | 8.22.22 | 1030 | 2' | G | 1 | CHLORIDES (EPA: 300.0) | NAPP2132756247 |
| BH05A | S | 8.22.22 | 1035 | 2' | G | 1 | TPH (8015) | |
| FS01 | S | 8.22.22 | 1200 | 1' | C | 1 | BTEX (8021) | |
| FS02 | S | 8.22.22 | 1205 | 1' | C | 1 | | |
| FS03 | S | 8.22.22 | 1210 | 1' | C | 1 | | |
| FS04 | S | 8.22.22 | 1235 | 1' | C | 1 | | |
| FS05 | S | 8.22.22 | 1245 | 1' | C | 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 Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 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 Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, 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 |
| | | 8-23-2022 | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2798-1

SDG Number: 03D2024008

Login Number: 2798

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2798-1

SDG Number: 03D2024008

Login Number: 2798

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/24/22 10:58 AM

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

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APPENDIX E

NMOCD Notifications

From: [Beauvais, Charles R](#)
To: [Kalei Jennings](#)
Subject: FW: [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)
Date: Tuesday, April 12, 2022 12:46:38 PM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL**]

Per our discussion.

From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Tuesday, April 12, 2022 7:56 AM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Subject: FW: [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)

Charles, not sure if you saw this one or not but it was denied.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**

O: 432-221-0398 | **C:** 432-349-1911 | 1CC-331 Midland, Texas

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Friday, April 8, 2022 4:38 PM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #**NAPP2132756247**

Charles,

An extension for this release has already been granted. A remediation plan for this incident was due on 3/10/2022. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Friday, April 8, 2022 3:00 PM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: [EXTERNAL] Extension Request- Macho Nacho (Incident Number NAPP2132756247)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

COP is requesting an extension of the current April 10, 2022 deadline for submitting a Remediation Work Plan or Closure Report required in 19.15.29.12.B.(1) NMAC for the Macho Nacho State Com 010 CTB (Incident Number NAPP2132756247). The release was discovered on November 11, 2021 and remediation activities are ongoing. In addition, COP intends to drill a depth to water boring to confirm the closure criteria at the Site. In order to complete remediation activities, allow time to drill the depth to water boring, and submit a remediation work plan or closure report, COP request a 90-day extension of the deadline until July 10, 2022.

Respectfully,

Charles R. Beauvais II

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.



From: [Beauvais, Charles R](#)
To: [Kalei Jennings](#)
Subject: FW: Extension Request- Macho Nacho (Incident Number NAPP2132756247)
Date: Tuesday, April 12, 2022 12:48:03 PM
Attachments: [image001.png](#)
[Macho Nacho Table \(NAPP2132756247\).pdf](#)

[**EXTERNAL EMAIL**]

FYI

From: Beauvais, Charles R
Sent: Friday, April 8, 2022 3:00 PM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: Extension Request- Macho Nacho (Incident Number NAPP2132756247)

To Whom It May Concern,

COP is requesting an extension of the current April 10, 2022 deadline for submitting a Remediation Work Plan or Closure Report required in 19.15.29.12.B.(1) NMAC for the Macho Nacho State Com 010 CTB (Incident Number NAPP2132756247). The release was discovered on November 11, 2021 and remediation activities are ongoing. In addition, COP intends to drill a depth to water boring to confirm the closure criteria at the Site. In order to complete remediation activities, allow time to drill the depth to water boring, and submit a remediation work plan or closure report, COP request a 90-day extension of the deadline until July 10, 2022.

Respectfully,

Charles R. Beauvais II

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.





APPENDIX F

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 | NAPP2132756247 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

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

Location of Release Source

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

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

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| | | | | |

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

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
| Incident ID | NAPP2132756247 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> 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

| |
|--|
| <input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. |
| If all the actions described above have <u>not</u> been undertaken, explain why: |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name: _____ Title: _____ Signature: <u>Patricia Zapata</u> _____ Date: _____ email: _____ Telephone: _____ |
| <u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>11/29/2021</u> |

L48 Spill Volume Estimate Form

Received by OCD: 8/30/2022 3:44:41 PM

Page 160 of 165

| | | |
|--|---------------------------------------|----------------|
| Asset Area: | Macho Nacho #10 | NAPP2132756247 |
| Release Discovery Date & Time: | Delaware basin east north | |
| Release Type: | 11/10/2021 9:10am | |
| Provide any known details about the event: | Oil | |
| | Heater swamped out causing flare fire | |

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 | 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.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
|---|--------------|-------------|------------------------------------|---|-------------------------------|-------------------------------|---|-----------------------------|--|---|--|--|
| Rectangle A | 147.0 | 43.0 | 0.02 | 4 | 6321.000 | 0.000 | 0.469 | 0.000 | 0.469 | | | |
| Rectangle B | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | | |
| 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! | | | |
| | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | | |
| Total Volume Release: | | | | | | | | | 0.469 | | | |

Released to Imaging: 9/7/2022 2:55:34 PM AM

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 63483

CONDITIONS

| | |
|---|---|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 63483 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| marcus | None | 11/29/2021 |

| | |
|----------------|----------------|
| Incident ID | NAPP2132756247 |
| 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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 | NAPP2132756247 |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: Charles Beauvais Title: Senior Environmental Engineer
 Signature: Charles R. Beauvais Date: 08/30/2022
 email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: Jocelyn Harimon Date: 08/30/2022

| | |
|----------------|----------------|
| Incident ID | NAPP2132756247 |
| 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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais 99 Date: 8/30/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 08/30/2022

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

Closure Approved by: Jennifer Nobui Date: 09/07/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 139603

CONDITIONS

| | |
|---|---|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 139603 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--------------------------|----------------|
| jnobui | Closure Report Approved. | 9/7/2022 |