

| | |
|----------------|----------------|
| Incident ID | nAPP2125652492 |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

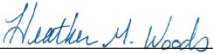
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Heather Woods Title: EHS Specialist
Signature:  Date: 5/12/2023
email: Heather.Woods@whiptialmidstream.com Telephone: (505) 636-0574

OCD Only

Received by: OCD Date: 5/12/23

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

Signature:  Date: 7/5/2023



1703 Calder Street, Farmington, New Mexico 87401

May 11, 2023

Mr. Michael Bratcher
Incident Supervisor
New Mexico Oil Conservation Division
506 W. Texas Avenue
Artesia, New Mexico 87210

Subject: Remediation Plan for MC COM #160 Release (nAPP2125652492)

Dear Mr. Bratcher:

Whiptail Midstream, LLC (Whiptail) submits this Remediation Plan for the MC COM #160 release (nAPP2125652492) which describes the remediation completed to date as well as proposed delineation activities.

Release Information

A release of approximately 210 barrels (bbls) of produced water was discovered at the MC COM #160 site on September 10, 2021. The release was caused by the failure of a reducer fitting of an aboveground pipe downstream of the produced water pump which resulted in the release of the produced water into the lined containment area at the facility. Following the recovery of approximately 210 bbls of produced water by vacuum truck, areas of the containment liner were found to be compromised and liquid was observed on the ground surface emanating from the northwest corner of the containment area. No liquids were observed to have migrated off the facility pad.

A prior release by the well operator, Enduring Resources, was discovered on March 18, 2019, and assigned incident number NCS1909448080. The 10 bbl crude oil release impacted a portion of the Whiptail release area. According to the closure report, the remediation did not address the reclamation requirements and residual impacts would be addressed once the areas were no longer in use or at final abandonment. The closure for incident NCS1909448080 was approved on June 27, 2019. The residual impact from this release is likely to affect the outcome of the remediation of the Whiptail release.

The Site is located in Unit Letter I, Section 35, Township 24 North, Range 07 West, in Rio Arriba County, New Mexico at approximately 36.265271, -107.537467 (NAD 83). A topographic site map is included as Figure 1, an aerial site map is included as Figure 2, and a depiction of the observed release extents is included as Figure 3.

Remediation Closure Criteria Determination / Site Characterization

The Closure Criteria for the area impacted by the release are described in Table I of 19.15.29.12 New Mexico Administrative Code (NMAC). The criteria are based upon depth to groundwater at the release site and proximity relative to sensitive receptors as described in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Depth to Groundwater / Wellhead Protection Area

Depth to groundwater is approximately 142 feet below grade surface (bgs) at the Site based upon the cathodic well record for this facility. A search of the New Mexico Office of the State Engineer's (NMOSE) New Mexico Water Rights Reporting System (NMWRRS) did not yield any results for registered points of diversion (PODs) within 0.5 mile of the Site. The cathodic well log, NMWRRS search results, and NMOSE POD map of the vicinity are included in Appendix A.

Distance to Significant Watercourse

The release area is located approximately 533 feet east of a small livestock pond which is cross-gradient from the release area. In the down gradient direction, the nearest surface water drainage feature is located approximately 787 feet to the north of the site.

Sensitive Receptors

The proximity of the release location to sensitive receptors as described in Paragraph (4) of Subsection C of 19.15.29.12 NMAC is assessed in the following table:

| 19.15.29.12(C)(4). If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: | | |
|---|------------|-----------------------------|
| <i>Description</i> | <i>Y/N</i> | <i>Reference</i> |
| (a) Within (i) 300 feet of any continuously flowing watercourse or any other significant watercourse, or (ii) 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark); | No | Figures 1 and 2 |
| (b) Within 300 feet from an occupied permanent residence, school, hospital, institution or church; | No | Figure 2 |
| (c) Within (i) 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or (ii) 1,000 feet of any fresh water well or spring; | No | Figures 1 and 2, Appendix A |
| (d) Within incorporated municipal boundaries or within a defined fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves; | No | Figure 1 |

| | | |
|--|----|-------------------------|
| (e) Within 300 feet of a wetland; | No | Figure 1 and Appendix B |
| (f) Within the area overlying a subsurface mine; | No | Appendix C |
| (g) Within an unstable area; or | No | Appendix C |
| (h) Within a 100-year floodplain. | No | Appendix D |

Closure Criteria

As demonstrated above, depth to groundwater at the site is greater than 100 feet bgs and the release area is not located within the designated proximity of to the described sensitive receptors. Therefore, the closure criteria for the release are: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total BTEX; 1,000 mg/kg TPH (GRO/DRO); 2,500 mg/kg total TPH (GRO/DRO/MRO); and 20,000 mg/kg chloride. The reclamation requirements of 19.15.29.13 NMAC are also applicable to the upper four feet of the impacted area.

Initial Site Investigation/Remediation

Whiptail retained a third-party consultant, WSP USA (WSP) of Durango, Colorado, for remediation guidance, sampling, and reporting. After the recovery of approximately 210 bbls of liquid from the lined containment utilizing a vacuum truck, the liner was removed to allow for remediation access. Approximately 2- to 4-inches of soil and gravel material was removed from the ground surface within the containment area as well as from the release path outside the containment wall to the northwest using hand tools and a hydrovac. Upon completion of remedial excavation, WSP personnel collected a total of 33 five-point composite samples representing 200 square feet or less of the impacted area. A figure depicting the sample locations is included as Figure 3 and a photograph log of the sampled areas is included in Appendix E.

Samples were delivered to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis including:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United State Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO) and motor oil range organics (MRO) by USEPA Method 8015M/D; and
- Chloride by USEPA Method 300.0.

Laboratory analytical results for the excavation confirmation samples report the following:

- Benzene concentrations are below the laboratory reporting limits which are below the closure criteria of 10 mg/kg.
- Total BTEX concentrations are below the laboratory reporting limits which are below the closure criteria of 50 mg/kg.

- TPH as GRO/DRO concentrations range from below the laboratory reporting limits to 490 mg/kg which are below the closure criteria of 1,000 mg/kg.
- TPH as GRO/DRO/MRO concentrations range from below the laboratory reporting limits to 890 mg/kg which are below the closure criteria of 2,500 mg/kg.
- Chloride concentrations range from below the laboratory reporting limits to 3,100 mg/kg which are below the closure criteria of 20,000 mg/kg.

Laboratory analytical results indicate that concentrations of benzene, total BTEX, TPH as GRO/DRO, TPH as GRO/DRO/MRO, and chlorides are below the closure criteria for all the excavation confirmation samples. Analytical results are summarized in Table 1 and the laboratory report is included in Appendix F. Excavated material was transported for disposal/remediation at Envirotech Landfarm near Hilltop, New Mexico. The excavation area was backfilled with imported, clean earthen material and the liner was replaced within the containment area.

Excavation confirmation sample results demonstrate that the remedial excavation meets the closure criteria of Table I of 19.15.29.12 NMAC. However, the remediation area, while on-pad and in an area reasonably needed for production operations, is within the upper four feet from the surface and is subject to the reclamation standards of 19.15.29.13 NMAC. All except eight confirmation samples (SS07, SS09, SS14, SS23, SS26, SS27, SS28, and SS31) exceed the reclamation requirements. Furthermore, the confirmation samples representing the perimeter of the release area do not demonstrate the horizontal extents of the release per the reclamation standards to the north and east, and portions to the west and south. Therefore, Whiptail proposes additional delineation as described below.

Continued Site Investigation/Delineation

To demonstrate the extents of the residual impacted material in the upper four feet of the release area per reclamation requirements of 19.15.19.13 NMAC, Whiptail proposes to advance 10 soil borings outside the perimeter of the release area as illustrated on Figure 4. Excavation confirmation samples demonstrating concentrations of chloride and TPH below the reclamation standards in the southwest corner of the release area (SS21, SS26, SS27, and SS31) will be used to define that portion of the horizontal extents. Based on photographs and knowledge of the construction of the containment ring at this site, the steel containment ring is buried approximately 6- inches bgs. Therefore, the proposed borings will be advanced to approximately two feet bgs to investigate for possible subsurface horizontal migration of the release fluids at and below this depth.

Samples will be collected at 6-inch intervals from each boring location to the total depth of 2 feet bgs or to auger refusal, whichever is shallower. Samples will be field screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and for electrical conductivity using a handheld meter. Based on field screening results, additional soil borings will be added to the sampling plan as appropriate. A minimum of two samples from each boring will be submitted to the laboratory for analysis

of BTEX, TPH, and chloride from the sampling interval exhibiting the highest field screening concentrations and from the deepest interval sampled. The continued site investigation analytical results will be evaluated using the reclamation standards to determine if the horizontal extents of the release have been defined and additional delineation will be performed if warranted. Upon completion of the continued site investigation, any reclamation off the pad or in areas not reasonably needed for production operations will be remediated to the reclamation requirements.

Remediation Plan/Additional Remediation

A remediation plan will be submitted detailing the results of the continued site investigation, results of additional remedial excavation if performed, and a request for deferral of final reclamation for areas reasonably needed for production operations. Whiptail anticipates using the reclamation requirement depth of four feet bgs as the vertical extent of impacted material left in place for the deferral request unless otherwise defined during the continued site investigation.

Whiptail appreciates the opportunity to provide this remediation plan for the MC COM #160 (nAPP2125652492) release. Please feel free to contact me with any questions or comments at Heather.Woods@WhiptailMidstream.com or (505) 636-0574.

Sincerely,



Heather M. Woods, PG
EHS Specialist

Figures:

Figure 1. Topographic Site Map

Figure 2. Aerial Site Map

Figure 3. Excavation Confirmation Sample Map

Figure 4. Proposed Sample Location Map

Table:

Table 1. Soil Analytical Results

Appendices:

Appendix A: Well Log and NMOSE Registered Water Well Documentation

Appendix B: Wetland Map

Appendix C: Mine Maps

Appendix D: Floodplain Map

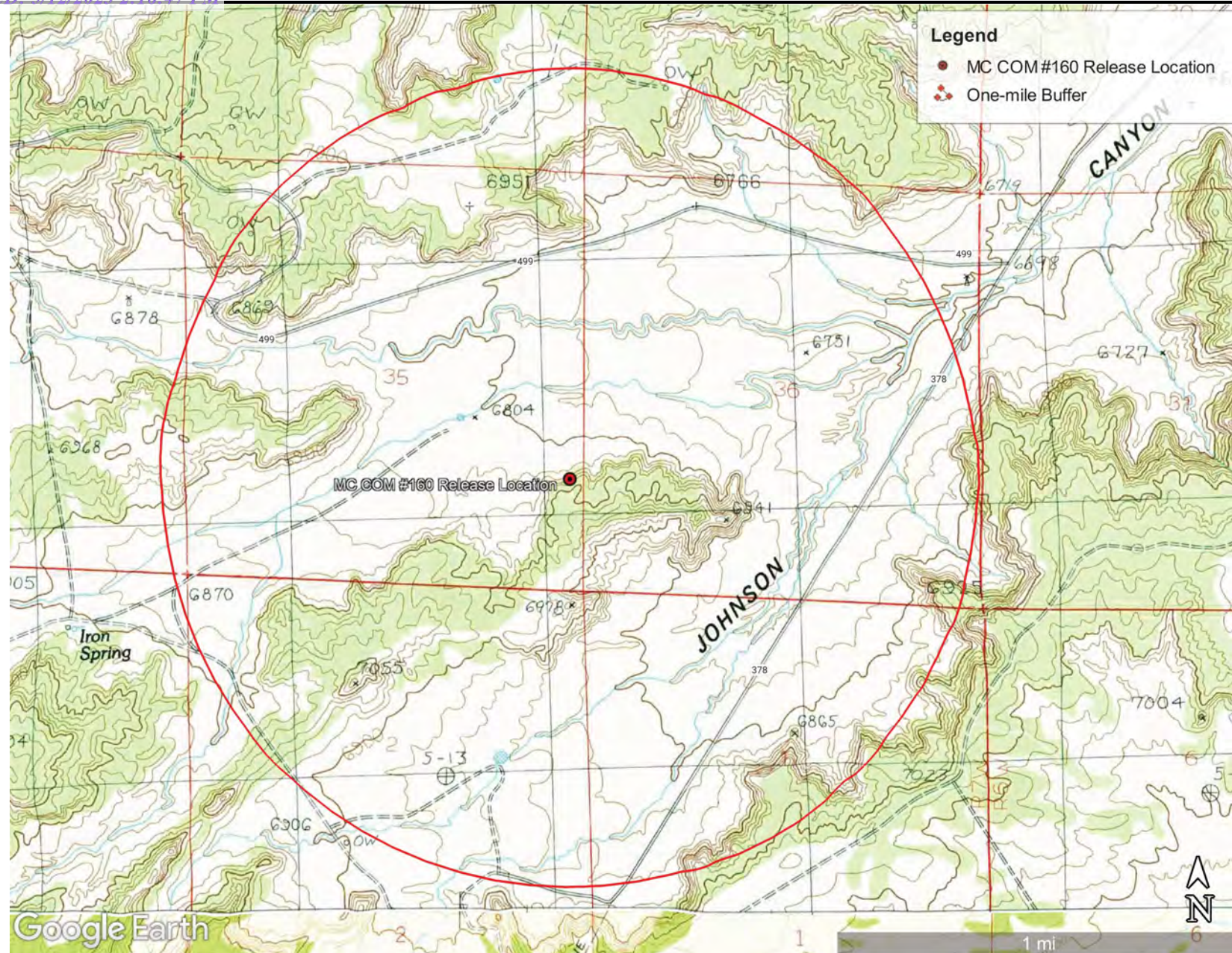
Appendix E: Photograph Log

Appendix F: Laboratory Analytical Report

Remediation Plan
MC COM #160 (nAPP2125652492)

Figures

Figures



MC COM #160
 Whiptail Midstream, LLC
 UL I, S35, T24N R07W NMPM
 Rio Arriba County, New Mexico
 36.265271, -107.537467 (NAD 83)

Figure 1
 Topographic Map



MC COM #160
 Whiptail Midstream, LLC
 UL I, S35, T24N R07W NMPM
 Rio Arriba County, New Mexico
 36.265271, -107.537467 (NAD 83)

Figure 2
 Aerial Site Map

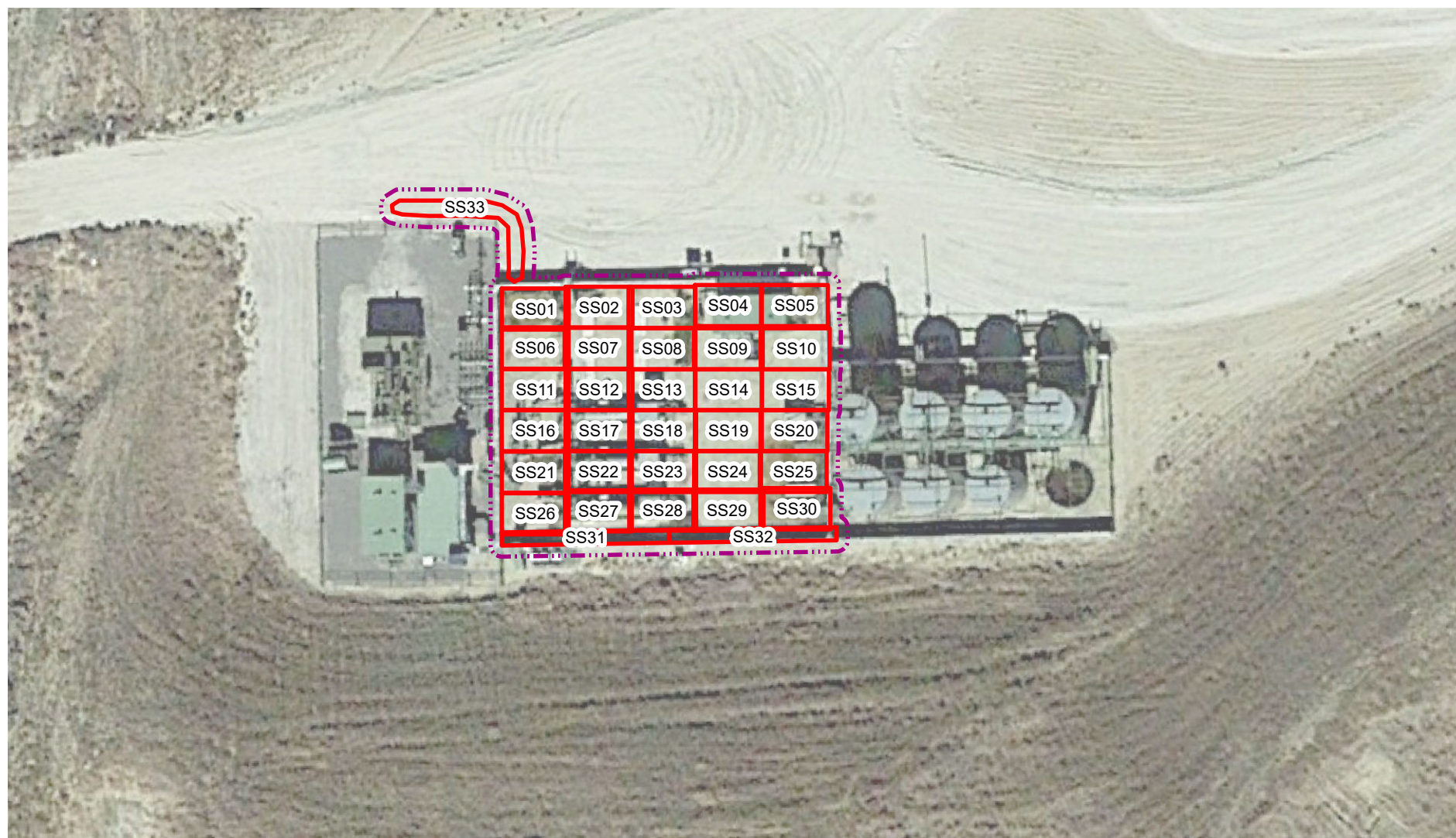




IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

-  RELEASE PATH
-  CONFIRMATION SOIL SAMPLE LOCATION

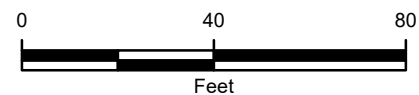
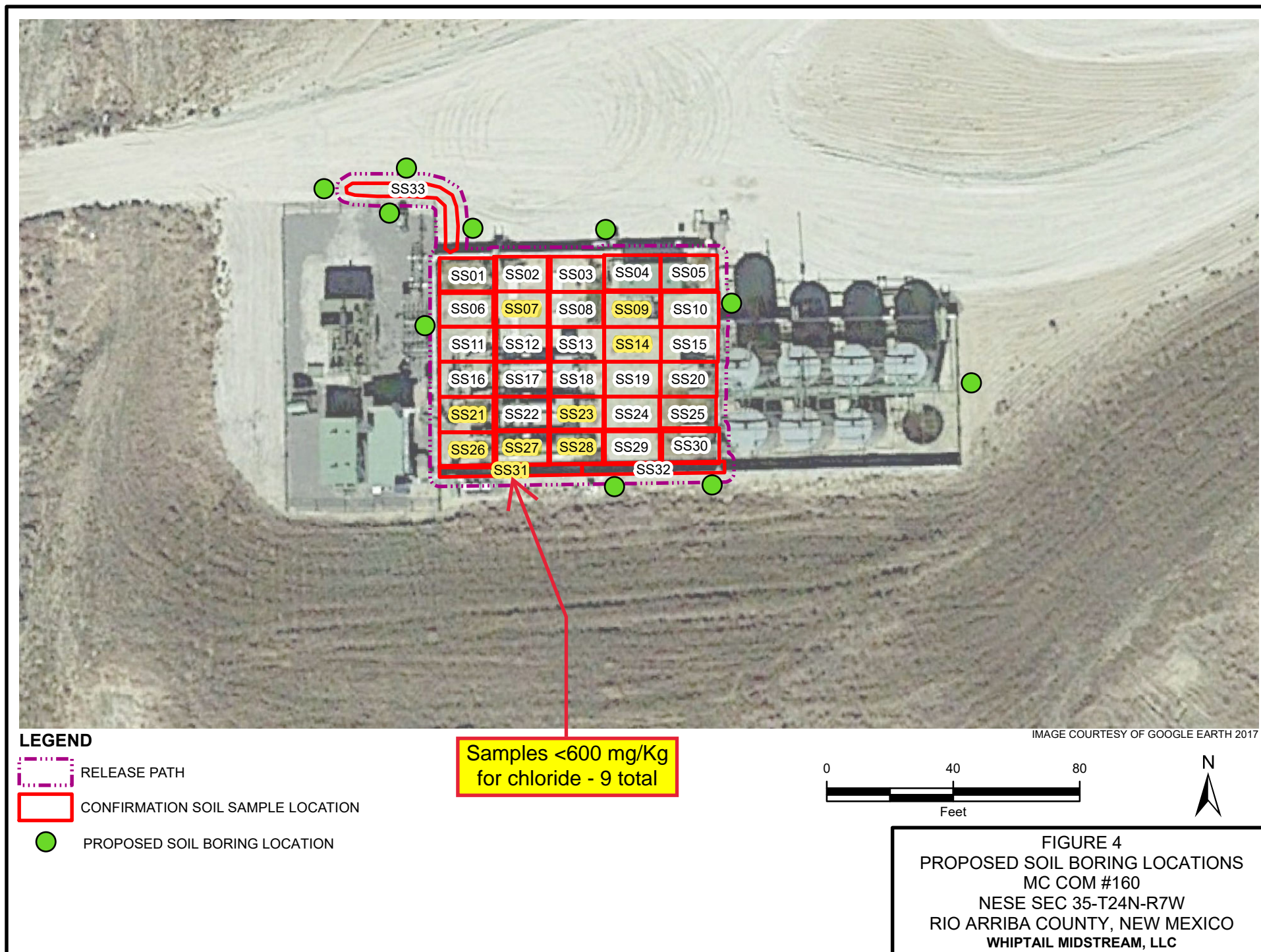


FIGURE 3
CONFIRMATION SOIL SAMPLE LOCATIONS
 MC COM #160
 NESE SEC 35-T24N-R7W
 RIO ARRIBA COUNTY, NEW MEXICO
 WHIPTAIL MIDSTREAM, LLC





Remediation Plan
MC COM #160 (nAPP2125652492)

Table

Table

TABLE 1
SOIL ANALYTICAL RESULTS

MC COM #160
RIO ARriba COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM LLC

| Soil Sample Identification | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | GRO+DRO (mg/kg) | MRO (mg/kg) | TPH (mg/kg) |
|----------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|------------------|-------------|-------------|-----------------|-------------|-------------|
| SS01 | 9/28/2021 | <0.12 | <0.23 | <0.23 | <0.47 | <0.47 | 1,700 | <23 | 23 | 23 | <49 | 23 |
| SS02 | 9/28/2021 | <0.023 | <0.046 | <0.046 | <0.093 | <0.093 | 2,100 | <4.6 | 11 | 11 | <49 | 11 |
| SS03 | 9/28/2021 | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | 2,300 | <4.9 | 160 | 160 | 190 | 350 |
| SS04 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | 2,500 | <4.8 | 30 | 30 | <48 | 30 |
| SS05 | 9/28/2021 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | 1,400 | <5.0 | 21 | 21 | <49 | 21 |
| SS06 | 9/28/2021 | <0.023 | <0.047 | <0.047 | <0.094 | <0.094 | 620 | <4.7 | <9.6 | <9.6 | <48 | <48 |
| SS07 | 9/28/2021 | <0.023 | <0.046 | <0.046 | <0.093 | <0.093 | 380 | <4.6 | <9.8 | <9.8 | <49 | <49 |
| SS08 | 9/28/2021 | <0.12 | <0.24 | <0.24 | <0.48 | <0.48 | 2,100 | <24 | 210 | 210 | 150 | 360 |
| SS09 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | 130 | <4.8 | <9.9 | <9.9 | <50 | <50 |
| SS10 | 9/28/2021 | <0.012 | <0.024 | <0.024 | <0.048 | <0.048 | 2,200 | <24 | 150 | 150 | 130 | 280 |
| SS11 | 9/28/2021 | <0.012 | <0.023 | <0.023 | <0.047 | <0.047 | 2,700 | <23 | 330 | 330 | 270 | 600 |
| SS12 | 9/28/2021 | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | 2,100 | <4.7 | 54 | 54 | 56 | 110 |
| SS13 | 9/28/2021 | <0.024 | <0.047 | <0.047 | <0.094 | <0.094 | 860 | <4.7 | <8.6 | <8.6 | <43 | <43 |
| SS14 | 9/28/2021 | <0.025 | <0.049 | <0.049 | <0.098 | <0.098 | 80 | <4.9 | <9.2 | <9.2 | <46 | <46 |
| SS15 | 9/28/2021 | <0.012 | <0.024 | <0.024 | <0.048 | <0.048 | 2,200 | <24 | 150 | 150 | 130 | 280 |
| SS16 | 9/28/2021 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | 870 | <5.0 | 47 | 47 | 61 | 108 |
| SS17 | 9/28/2021 | <0.025 | <0.049 | <0.049 | <0.099 | <0.099 | 2,100 | <4.9 | 92 | 92 | 130 | 222 |
| SS18 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | 630 | <4.8 | 76 | 76 | 140 | 216 |
| SS19 | 9/28/2021 | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | 1,500 | <4.7 | 9.8 | 9.8 | <46 | 9.8 |
| SS20 | 9/28/2021 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | 3,100 | <5.0 | 70 | 70 | 67 | 137 |
| SS21 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | 520 | <4.8 | 10 | 10 | <44 | 10 |
| SS22 | 9/28/2021 | <0.012 | <0.024 | <0.024 | <0.048 | <0.048 | 960 | <24 | 150 | 150 | 150 | 300 |
| SS23 | 9/28/2021 | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | 230 | <4.7 | <9.1 | <9.1 | <46 | <46 |
| SS24 | 9/28/2021 | <0.012 | <0.024 | <0.024 | <0.048 | <0.048 | 1,400 | <24 | 290 | 290 | 250 | 540 |
| SS25 | 9/28/2021 | <0.012 | <0.024 | <0.024 | <0.047 | <0.047 | 3,000 | <24 | 490 | 490 | 400 | 890 |
| SS26 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | 190 | <4.8 | 13 | 13 | <48 | 13 |
| SS27 | 9/28/2021 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | 550 | <5.0 | <9.1 | <9.1 | <45 | <45 |
| SS28 | 9/28/2021 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | 140 | <5.0 | <9.4 | <9.4 | <47 | <47 |

TABLE 1
SOIL ANALYTICAL RESULTS

MC COM #160
RIO ARriba COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM LLC

| Soil Sample Identification | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | GRO+DRO (mg/kg) | MRO (mg/kg) | TPH (mg/kg) |
|-------------------------------|-------------|-----------------|-----------------|----------------------|-----------------------|--------------------|------------------|-------------|-------------|-----------------|-------------|--------------|
| SS29 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | 2,200 | <4.8 | 150 | 150 | 180 | 330 |
| SS30 | 9/28/2021 | <0.12 | <0.24 | <0.24 | <0.48 | <0.48 | 3,100 | <24 | 300 | 300 | 230 | 530 |
| SS31 | 9/28/2021 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <60 | <4.9 | <9.6 | <9.6 | <48 | <48 |
| SS32 | 9/28/2021 | <0.12 | <0.24 | <0.24 | <0.49 | <0.49 | 1,600 | <24 | 240 | 240 | 230 | 470 |
| SS33 | 9/28/2021 | <0.024 | <0.048 | <0.048 | <0.096 | <0.049 | 2,500 | <4.8 | <9.8 | <9.8 | <49 | <49 |
| NMOCD Closure Criteria | | 10 | NE | NE | NE | 50 | 20,000 | NE | NE | 1,000 | NE | 2,500 |

NOTES:

BTEX - benzene, toluene, ethylbenzene, and total xylenes analyzed by US EPA Method 8021B

DRO - diesel range organics analyzed by US EPA Method 8015D

GRO - gasoline range organics analyzed by US EPA Method 8015D

mg/kg - milligrams per kilogram

MRO - motor oil range organics analyzed by US EPA method 8015D

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbon (sum of GRO, DRO, and MRO)

< - indicates result is less than the stated laboratory reporting limit

Bold - indicates value exceeds stated NMOCD Closure Criteria

Remediation Plan
MC COM #160 (nAPP2125652492)

Appendix A

Appendix A: Well Log and NMOSE Registered Water Well Documentation

Ground Bed Drilling Log

Company: WPX Energy Well: Chaco #159H #160H #901H Date: 9-11-2015
 Location: Sec 35 T4N R7W State: New Mexico Rig: String #1
 Ground Bed Depth: 360' Water Depth: 142' Diameter: 10"
 Fuel: 98 gal Latitude: _____ Longitude: _____

DEPTH**FORMATION****OTHER**

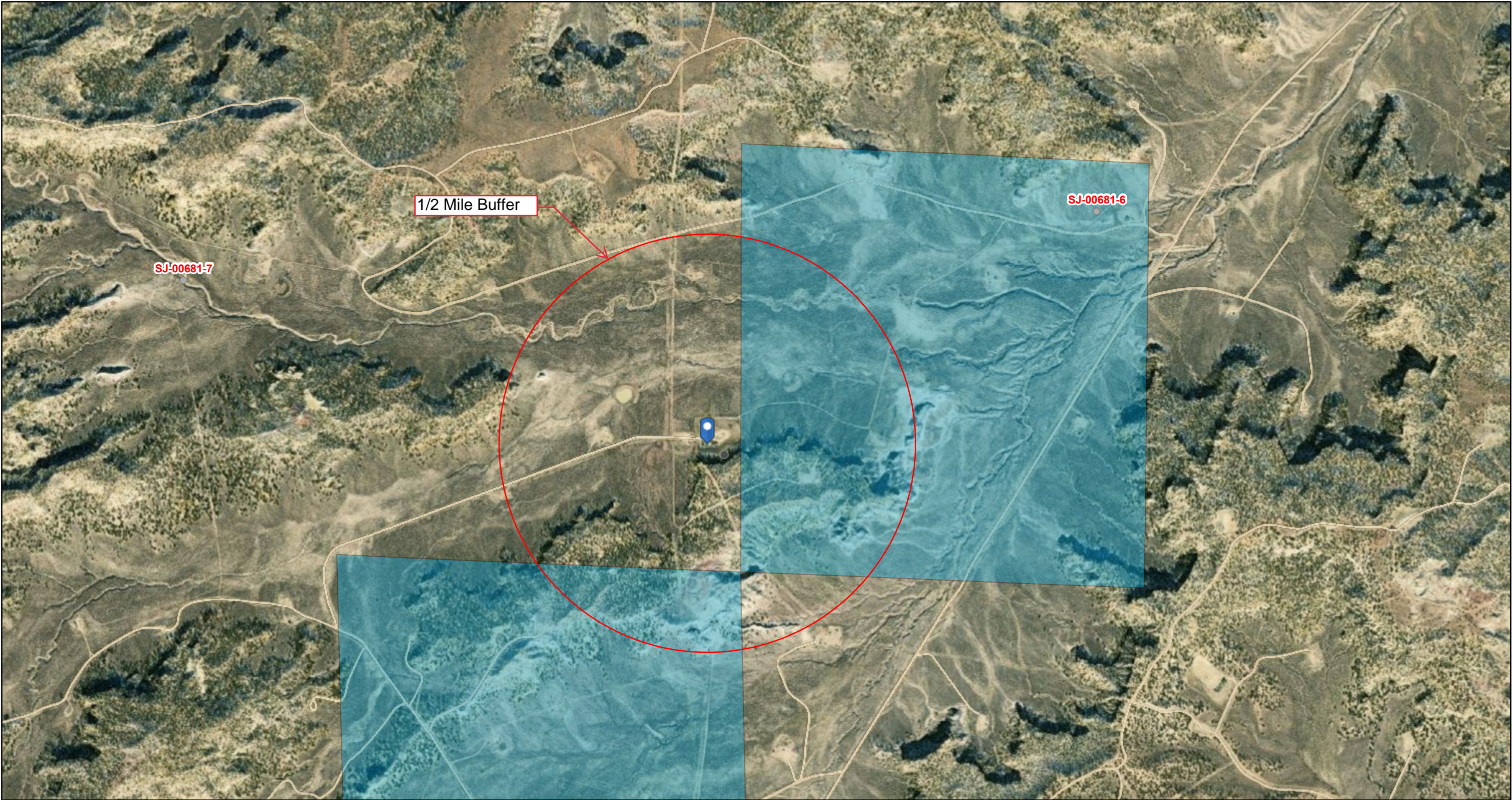
| DEPTH | FORMATION | OTHER |
|----------------|--|------------|
| <u>0-40</u> | Sand Stone, Shale, Sand w/ Shale w/ Sand | <u>PVC</u> |
| <u>40-110</u> | <u>Sand Stone</u> Shale, Sand w/ Shale w/ Sand | |
| <u>110-200</u> | Sand Stone, Shale, <u>Sand w/ Shale w/ Sand</u> | |
| <u>200-260</u> | Sand Stone, <u>Shale</u> , Sand w/ Shale w/ Sand | |
| <u>260-360</u> | Sand Stone, Shale, <u>Sand w/ Shale w/ Sand</u> | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |
| _____ | Sand Stone, Shale, Sand w/ Shale w/ Sand | |

GROUNDWATER DEPTH LOG

| Company: WPX Energy | | | Location: <u>Chaco #159H #160H #901H</u> |
|---|--------|-------|--|
| Probe type: <u>Powerwire</u> <u>Sounder</u> | | | |
| Date | Time | Depth | Comments |
| 9-11-15 | 7:30am | 40' | Drilled 40' |
| | 8:30am | 40' | test: No water |
| | 9:00 | 160' | Drilled 160' - set PVC |
| | 10:00 | 160' | test: No water |
| | 11:15 | 115' | Drilled 115' |
| | 12:15 | 115' | test: no water |
| 9-14-15 | 4:30 | 360' | test water @ 142' |
| | 9:15 | 142' | test water @ 142' |
| | 11:45 | | Finished anode bed. |
| | | | |
| | | | |
| | | | |



MC COM #160 OSE POD Locations Map



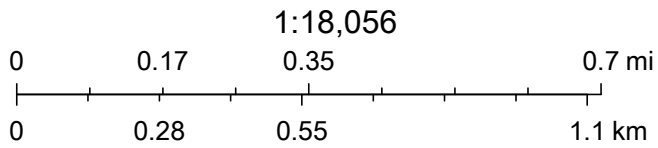
4/11/2023, 10:41:12 AM

GIS WATERS PODs

• GIS WATERS PODs

New Mexico State Trust Lands

Both Estates



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 1, 2

Township: 23N

Range: 07W

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.

5/11/23 11:43 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 35, 36

Township: 24N

Range: 07W

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.

5/11/23 11:42 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Remediation Plan
MC COM #160 (nAPP2125652492)

Table

Appendix B: Wetland Map



MC COM #160 Wetland Map



April 11, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Remediation Plan
MC COM #160 (nAPP2125652492)

Table

Appendix C: Mine Maps

Active Mines in New Mexico

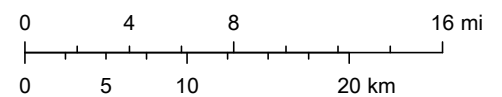


5/11/2023, 12:36:18 PM

1:577,791

Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Humate




Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

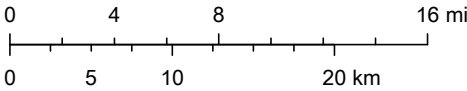
Coal Mines in New Mexico



5/11/2023, 12:43:35 PM

 NM Coal Districts

1:577,791



NM Coal Mine Reclamation Program, NM EMNRD, Esri, CGIAR, USGS, New Mexico State University, San Juan County, NM, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS

EMNRD MMD GIS Coordinator

Remediation Plan
MC COM #160 (nAPP2125652492)

Table

Appendix D: Floodplain Map

National Flood Hazard Layer FIRMette



107°32'36"W 36°16'11"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

| | | |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) Zone A, V, A99 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee. See Notes. Zone X |
| | | Area with Flood Risk due to Levee Zone D |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard Zone D |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 17.5 |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/11/2023 at 12:57 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Remediation Plan
MC COM #160 (nAPP2125652492)


Table


Appendix E: Photograph Log



PHOTOGRAPHIC LOG

| | | |
|-----------------------------------|--|---------------------|
| WHIPTAIL MIDSTREAM LLC | MC COM #160 RIO ARriba COUNTY, NEW MEXICO | 31403189.002 |
|-----------------------------------|--|---------------------|

| Photo No. | Date | |
|---|-----------|---|
| 1 | 9/28/2021 | |
| View of excavated area where release breeched containment. Area where SS33 was collected (looking west) | |  |

| Photo No. | Date | |
|--|-----------|--|
| 2 | 9/28/2021 | |
| View of the center of the release/excavation area within the containment, showing various soil sample locations (looking south). | |  |



| PHOTOGRAPHIC LOG | | |
|---------------------------|--|--------------|
| WHIPTAIL MIDSTREAM LLC | MC COM #160 RIO ARRIBA COUNTY, NEW MEXICO | 31403189.002 |

| Photo No. | Date | |
|---|-----------|--|
| 3 | 9/28/2021 | |
| View of the eastern side of the release/excavation area within the containment, showing various soil sample locations (looking east). | | A photograph showing the eastern side of a release/excavation area. In the background, there are large industrial storage tanks and a green building. The ground is reddish-brown dirt with some white bags and equipment. A green excavator arm is visible in the foreground. |

| Photo No. | Date | |
|--|-----------|--|
| 4 | 9/28/2021 | |
| View of the western side of the release/excavation area within the containment, showing various soil sample locations (looking southwest). | | A photograph showing the western side of a release/excavation area. In the background, there are industrial buildings and a hillside. The ground is reddish-brown dirt with some white bags and equipment. A green excavator arm is visible in the foreground. |

Continued Photograph Log
MC COM #160

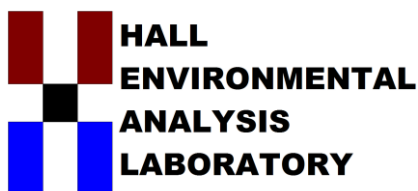
Page 3

| | |
|---|---|
| Photo: 5 |  |
| Location: MC COM #160 | |
| Incident Number: nAPP2125652492 | |
| Date Taken: 9/16/2021 | |
| Description: | View looking west demonstrating the burial depth of the corrugated steel ring containment wall to be approximately 6-inches below ground surface. |

Remediation Plan
MC COM #160 (nAPP2125652492)

Table

Appendix F: Laboratory Analytical Report



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 15, 2021

Brooke Herb
WSP
848 East 2nd Avenue
Durango, CO 81301
TEL: (970) 946-1093
FAX

RE: MC COM 160

OrderNo.: 2109H25

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 33 sample(s) on 9/30/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS01

Project: MC COM 160

Collection Date: 9/28/2021 2:20:00 PM

Lab ID: 2109H25-001

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 23 | 9.7 | | mg/Kg | 1 | 10/7/2021 9:22:47 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/7/2021 9:22:47 PM |
| Surr: DNOP | 110 | 70-130 | | %Rec | 1 | 10/7/2021 9:22:47 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 23 | | mg/Kg | 5 | 10/5/2021 10:55:40 PM |
| Surr: BFB | 98.3 | 70-130 | | %Rec | 5 | 10/5/2021 10:55:40 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 10:55:40 PM |
| Toluene | ND | 0.23 | | mg/Kg | 5 | 10/5/2021 10:55:40 PM |
| Ethylbenzene | ND | 0.23 | | mg/Kg | 5 | 10/5/2021 10:55:40 PM |
| Xylenes, Total | ND | 0.47 | | mg/Kg | 5 | 10/5/2021 10:55:40 PM |
| Surr: 4-Bromofluorobenzene | 85.3 | 70-130 | | %Rec | 5 | 10/5/2021 10:55:40 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 1700 | 59 | | mg/Kg | 20 | 10/6/2021 7:00:07 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS02

Project: MC COM 160

Collection Date: 9/28/2021 2:22:00 PM

Lab ID: 2109H25-002

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 11 | 9.8 | | mg/Kg | 1 | 10/8/2021 9:53:38 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/8/2021 9:53:38 PM |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 10/8/2021 9:53:38 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/5/2021 11:19:13 PM |
| Surr: BFB | 93.0 | 70-130 | | %Rec | 1 | 10/5/2021 11:19:13 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/5/2021 11:19:13 PM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/5/2021 11:19:13 PM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/5/2021 11:19:13 PM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 10/5/2021 11:19:13 PM |
| Surr: 4-Bromofluorobenzene | 82.6 | 70-130 | | %Rec | 1 | 10/5/2021 11:19:13 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2100 | 61 | | mg/Kg | 20 | 10/6/2021 8:02:09 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS03

Project: MC COM 160

Collection Date: 9/28/2021 2:23:00 PM

Lab ID: 2109H25-003

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 160 | 9.8 | | mg/Kg | 1 | 10/8/2021 10:17:55 PM |
| Motor Oil Range Organics (MRO) | 190 | 49 | | mg/Kg | 1 | 10/8/2021 10:17:55 PM |
| Surr: DNOP | 111 | 70-130 | | %Rec | 1 | 10/8/2021 10:17:55 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2021 11:42:39 PM |
| Surr: BFB | 92.7 | 70-130 | | %Rec | 1 | 10/5/2021 11:42:39 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 11:42:39 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 11:42:39 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 11:42:39 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/5/2021 11:42:39 PM |
| Surr: 4-Bromofluorobenzene | 82.5 | 70-130 | | %Rec | 1 | 10/5/2021 11:42:39 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2300 | 60 | | mg/Kg | 20 | 10/6/2021 8:39:23 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS04

Project: MC COM 160

Collection Date: 9/28/2021 2:25:00 PM

Lab ID: 2109H25-004

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 30 | 9.7 | | mg/Kg | 1 | 10/8/2021 10:42:14 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/8/2021 10:42:14 PM |
| Surr: DNOP | 108 | 70-130 | | %Rec | 1 | 10/8/2021 10:42:14 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/6/2021 12:06:05 AM |
| Surr: BFB | 94.3 | 70-130 | | %Rec | 1 | 10/6/2021 12:06:05 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/6/2021 12:06:05 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/6/2021 12:06:05 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/6/2021 12:06:05 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/6/2021 12:06:05 AM |
| Surr: 4-Bromofluorobenzene | 85.1 | 70-130 | | %Rec | 1 | 10/6/2021 12:06:05 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2500 | 150 | | mg/Kg | 50 | 10/7/2021 11:19:13 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order **2109H25**Date Reported: **10/15/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** WSP**Client Sample ID:** SS05**Project:** MC COM 160**Collection Date:** 9/28/2021 2:27:00 PM**Lab ID:** 2109H25-005**Matrix:** SOIL**Received Date:** 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 21 | 9.9 | | mg/Kg | 1 | 10/8/2021 11:06:31 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/8/2021 11:06:31 PM |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 10/8/2021 11:06:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/6/2021 12:29:29 AM |
| Surr: BFB | 92.1 | 70-130 | | %Rec | 1 | 10/6/2021 12:29:29 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/6/2021 12:29:29 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/6/2021 12:29:29 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/6/2021 12:29:29 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 10/6/2021 12:29:29 AM |
| Surr: 4-Bromofluorobenzene | 81.9 | 70-130 | | %Rec | 1 | 10/6/2021 12:29:29 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 1400 | 60 | | mg/Kg | 20 | 10/6/2021 9:04:11 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS06

Project: MC COM 160

Collection Date: 9/28/2021 2:31:00 PM

Lab ID: 2109H25-006

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 10/8/2021 11:30:45 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/8/2021 11:30:45 PM |
| Surr: DNOP | 110 | 70-130 | | %Rec | 1 | 10/8/2021 11:30:45 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/6/2021 2:03:08 AM |
| Surr: BFB | 95.2 | 70-130 | | %Rec | 1 | 10/6/2021 2:03:08 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/6/2021 2:03:08 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/6/2021 2:03:08 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/6/2021 2:03:08 AM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/6/2021 2:03:08 AM |
| Surr: 4-Bromofluorobenzene | 85.4 | 70-130 | | %Rec | 1 | 10/6/2021 2:03:08 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 620 | 59 | | mg/Kg | 20 | 10/6/2021 9:16:36 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order **2109H25**Date Reported: **10/15/2021****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** WSP**Client Sample ID:** SS07**Project:** MC COM 160**Collection Date:** 9/28/2021 2:33:00 PM**Lab ID:** 2109H25-007**Matrix:** SOIL**Received Date:** 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/8/2021 11:54:57 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/8/2021 11:54:57 PM |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 10/8/2021 11:54:57 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/6/2021 2:26:29 AM |
| Surr: BFB | 94.8 | 70-130 | | %Rec | 1 | 10/6/2021 2:26:29 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 10/6/2021 2:26:29 AM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/6/2021 2:26:29 AM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/6/2021 2:26:29 AM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 10/6/2021 2:26:29 AM |
| Surr: 4-Bromofluorobenzene | 84.7 | 70-130 | | %Rec | 1 | 10/6/2021 2:26:29 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 380 | 60 | | mg/Kg | 20 | 10/6/2021 9:29:00 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS08

Project: MC COM 160

Collection Date: 9/28/2021 2:35:00 PM

Lab ID: 2109H25-008

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 210 | 9.4 | | mg/Kg | 1 | 10/9/2021 12:19:06 AM |
| Motor Oil Range Organics (MRO) | 150 | 47 | | mg/Kg | 1 | 10/9/2021 12:19:06 AM |
| Surr: DNOP | 113 | 70-130 | | %Rec | 1 | 10/9/2021 12:19:06 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/6/2021 2:49:58 AM |
| Surr: BFB | 94.7 | 70-130 | | %Rec | 5 | 10/6/2021 2:49:58 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/6/2021 2:49:58 AM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/6/2021 2:49:58 AM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/6/2021 2:49:58 AM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/6/2021 2:49:58 AM |
| Surr: 4-Bromofluorobenzene | 85.0 | 70-130 | | %Rec | 5 | 10/6/2021 2:49:58 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2100 | 60 | | mg/Kg | 20 | 10/6/2021 9:41:24 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS09

Project: MC COM 160

Collection Date: 9/28/2021 2:37:00 PM

Lab ID: 2109H25-009

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/9/2021 12:43:18 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 10/9/2021 12:43:18 AM |
| Surr: DNOP | 112 | 70-130 | | %Rec | 1 | 10/9/2021 12:43:18 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/6/2021 3:13:37 AM |
| Surr: BFB | 92.8 | 70-130 | | %Rec | 1 | 10/6/2021 3:13:37 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/6/2021 3:13:37 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/6/2021 3:13:37 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/6/2021 3:13:37 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/6/2021 3:13:37 AM |
| Surr: 4-Bromofluorobenzene | 82.6 | 70-130 | | %Rec | 1 | 10/6/2021 3:13:37 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 130 | 60 | | mg/Kg | 20 | 10/6/2021 9:53:49 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS10

Project: MC COM 160

Collection Date: 9/28/2021 2:39:00 PM

Lab ID: 2109H25-010

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 150 | 9.1 | | mg/Kg | 1 | 10/9/2021 1:55:58 AM |
| Motor Oil Range Organics (MRO) | 130 | 45 | | mg/Kg | 1 | 10/9/2021 1:55:58 AM |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 10/9/2021 1:55:58 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 10:19:00 AM |
| Surr: BFB | 110 | 70-130 | | %Rec | 5 | 10/5/2021 10:19:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 10:19:00 AM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 10:19:00 AM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 10:19:00 AM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/5/2021 10:19:00 AM |
| Surr: 4-Bromofluorobenzene | 97.5 | 70-130 | | %Rec | 5 | 10/5/2021 10:19:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2200 | 60 | | mg/Kg | 20 | 10/6/2021 10:31:02 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS11

Project: MC COM 160

Collection Date: 9/28/2021 2:41:00 PM

Lab ID: 2109H25-011

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 330 | 10 | | mg/Kg | 1 | 10/9/2021 4:43:12 PM |
| Motor Oil Range Organics (MRO) | 270 | 50 | | mg/Kg | 1 | 10/9/2021 4:43:12 PM |
| Surr: DNOP | 115 | 70-130 | | %Rec | 1 | 10/9/2021 4:43:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 23 | | mg/Kg | 5 | 10/5/2021 11:18:00 AM |
| Surr: BFB | 109 | 70-130 | | %Rec | 5 | 10/5/2021 11:18:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 11:18:00 AM |
| Toluene | ND | 0.23 | | mg/Kg | 5 | 10/5/2021 11:18:00 AM |
| Ethylbenzene | ND | 0.23 | | mg/Kg | 5 | 10/5/2021 11:18:00 AM |
| Xylenes, Total | ND | 0.47 | | mg/Kg | 5 | 10/5/2021 11:18:00 AM |
| Surr: 4-Bromofluorobenzene | 96.9 | 70-130 | | %Rec | 5 | 10/5/2021 11:18:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2700 | 150 | | mg/Kg | 50 | 10/7/2021 11:31:38 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS12

Project: MC COM 160

Collection Date: 9/28/2021 2:43:00 PM

Lab ID: 2109H25-012

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 54 | 9.6 | | mg/Kg | 1 | 10/9/2021 3:08:25 AM |
| Motor Oil Range Organics (MRO) | 56 | 48 | | mg/Kg | 1 | 10/9/2021 3:08:25 AM |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 10/9/2021 3:08:25 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2021 12:16:00 PM |
| Surr: BFB | 101 | 70-130 | | %Rec | 1 | 10/5/2021 12:16:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 12:16:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 12:16:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 12:16:00 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2021 12:16:00 PM |
| Surr: 4-Bromofluorobenzene | 91.6 | 70-130 | | %Rec | 1 | 10/5/2021 12:16:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2100 | 60 | | mg/Kg | 20 | 10/6/2021 10:55:51 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS13

Project: MC COM 160

Collection Date: 9/28/2021 2:45:00 PM

Lab ID: 2109H25-013

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 8.6 | | mg/Kg | 1 | 10/9/2021 3:32:30 AM |
| Motor Oil Range Organics (MRO) | ND | 43 | | mg/Kg | 1 | 10/9/2021 3:32:30 AM |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 10/9/2021 3:32:30 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2021 12:36:00 PM |
| Surr: BFB | 105 | 70-130 | | %Rec | 1 | 10/5/2021 12:36:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 12:36:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 12:36:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 12:36:00 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/5/2021 12:36:00 PM |
| Surr: 4-Bromofluorobenzene | 89.1 | 70-130 | | %Rec | 1 | 10/5/2021 12:36:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 860 | 60 | | mg/Kg | 20 | 10/6/2021 11:08:15 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS14

Project: MC COM 160

Collection Date: 9/28/2021 2:47:00 PM

Lab ID: 2109H25-014

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 10/9/2021 4:20:35 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 10/9/2021 4:20:35 AM |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 10/9/2021 4:20:35 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2021 12:56:00 PM |
| Surr: BFB | 98.8 | 70-130 | | %Rec | 1 | 10/5/2021 12:56:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 12:56:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 12:56:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 12:56:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/5/2021 12:56:00 PM |
| Surr: 4-Bromofluorobenzene | 91.1 | 70-130 | | %Rec | 1 | 10/5/2021 12:56:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 80 | 60 | | mg/Kg | 20 | 10/6/2021 11:20:40 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS15

Project: MC COM 160

Collection Date: 9/28/2021 2:49:00 PM

Lab ID: 2109H25-015

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 150 | 9.5 | | mg/Kg | 1 | 10/9/2021 4:44:36 AM |
| Motor Oil Range Organics (MRO) | 130 | 47 | | mg/Kg | 1 | 10/9/2021 4:44:36 AM |
| Surr: DNOP | 108 | 70-130 | | %Rec | 1 | 10/9/2021 4:44:36 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 1:15:00 PM |
| Surr: BFB | 112 | 70-130 | | %Rec | 5 | 10/5/2021 1:15:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 1:15:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 1:15:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 1:15:00 PM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/5/2021 1:15:00 PM |
| Surr: 4-Bromofluorobenzene | 98.2 | 70-130 | | %Rec | 5 | 10/5/2021 1:15:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2200 | 60 | | mg/Kg | 20 | 10/6/2021 11:33:04 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS16

Project: MC COM 160

Collection Date: 9/28/2021 2:50:00 PM

Lab ID: 2109H25-016

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 47 | 9.5 | | mg/Kg | 1 | 10/9/2021 5:08:35 AM |
| Motor Oil Range Organics (MRO) | 61 | 47 | | mg/Kg | 1 | 10/9/2021 5:08:35 AM |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 10/9/2021 5:08:35 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/5/2021 1:35:00 PM |
| Surr: BFB | 101 | 70-130 | | %Rec | 1 | 10/5/2021 1:35:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 1:35:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 1:35:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 1:35:00 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 10/5/2021 1:35:00 PM |
| Surr: 4-Bromofluorobenzene | 86.2 | 70-130 | | %Rec | 1 | 10/5/2021 1:35:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 870 | 60 | | mg/Kg | 20 | 10/6/2021 11:45:29 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS17

Project: MC COM 160

Collection Date: 9/28/2021 2:42:00 PM

Lab ID: 2109H25-017

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 92 | 9.5 | | mg/Kg | 1 | 10/9/2021 4:19:14 PM |
| Motor Oil Range Organics (MRO) | 130 | 47 | | mg/Kg | 1 | 10/9/2021 4:19:14 PM |
| Surr: DNOP | 110 | 70-130 | | %Rec | 1 | 10/9/2021 4:19:14 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2021 1:54:00 PM |
| Surr: BFB | 107 | 70-130 | | %Rec | 1 | 10/5/2021 1:54:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 1:54:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 1:54:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 1:54:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 10/5/2021 1:54:00 PM |
| Surr: 4-Bromofluorobenzene | 90.9 | 70-130 | | %Rec | 1 | 10/5/2021 1:54:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2100 | 59 | | mg/Kg | 20 | 10/6/2021 11:57:53 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS18

Project: MC COM 160

Collection Date: 9/28/2021 2:53:00 PM

Lab ID: 2109H25-018

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 76 | 10 | | mg/Kg | 1 | 10/9/2021 5:32:30 AM |
| Motor Oil Range Organics (MRO) | 140 | 50 | | mg/Kg | 1 | 10/9/2021 5:32:30 AM |
| Surr: DNOP | 108 | 70-130 | | %Rec | 1 | 10/9/2021 5:32:30 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2021 2:14:00 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 10/5/2021 2:14:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 2:14:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 2:14:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 2:14:00 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/5/2021 2:14:00 PM |
| Surr: 4-Bromofluorobenzene | 92.8 | 70-130 | | %Rec | 1 | 10/5/2021 2:14:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 630 | 60 | | mg/Kg | 20 | 10/7/2021 12:10:18 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS19

Project: MC COM 160

Collection Date: 9/28/2021 2:56:00 PM

Lab ID: 2109H25-019

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 9.8 | 9.2 | | mg/Kg | 1 | 10/9/2021 5:56:26 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 10/9/2021 5:56:26 AM |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 10/9/2021 5:56:26 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2021 2:34:00 PM |
| Surr: BFB | 107 | 70-130 | | %Rec | 1 | 10/5/2021 2:34:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 2:34:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 2:34:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 2:34:00 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2021 2:34:00 PM |
| Surr: 4-Bromofluorobenzene | 92.4 | 70-130 | | %Rec | 1 | 10/5/2021 2:34:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 1500 | 60 | | mg/Kg | 20 | 10/7/2021 12:22:42 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS20

Project: MC COM 160

Collection Date: 9/28/2021 2:57:00 PM

Lab ID: 2109H25-020

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 70 | 9.3 | | mg/Kg | 1 | 10/9/2021 6:20:13 AM |
| Motor Oil Range Organics (MRO) | 67 | 47 | | mg/Kg | 1 | 10/9/2021 6:20:13 AM |
| Surr: DNOP | 105 | 70-130 | | %Rec | 1 | 10/9/2021 6:20:13 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/5/2021 3:33:00 PM |
| Surr: BFB | 101 | 70-130 | | %Rec | 1 | 10/5/2021 3:33:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 3:33:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 3:33:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 3:33:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 10/5/2021 3:33:00 PM |
| Surr: 4-Bromofluorobenzene | 89.1 | 70-130 | | %Rec | 1 | 10/5/2021 3:33:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 3100 | 150 | | mg/Kg | 50 | 10/7/2021 11:44:02 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS21

Project: MC COM 160

Collection Date: 9/28/2021 2:59:00 PM

Lab ID: 2109H25-021

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 10 | 8.9 | | mg/Kg | 1 | 10/9/2021 6:43:51 AM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 10/9/2021 6:43:51 AM |
| Surr: DNOP | 105 | 70-130 | | %Rec | 1 | 10/9/2021 6:43:51 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2021 3:52:00 PM |
| Surr: BFB | 96.1 | 70-130 | | %Rec | 1 | 10/5/2021 3:52:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 3:52:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 3:52:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 3:52:00 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/5/2021 3:52:00 PM |
| Surr: 4-Bromofluorobenzene | 87.8 | 70-130 | | %Rec | 1 | 10/5/2021 3:52:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 520 | 60 | | mg/Kg | 20 | 10/7/2021 2:32:16 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS22

Project: MC COM 160

Collection Date: 9/28/2021 3:00:00 PM

Lab ID: 2109H25-022

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 150 | 9.6 | | mg/Kg | 1 | 10/9/2021 7:07:36 AM |
| Motor Oil Range Organics (MRO) | 150 | 48 | | mg/Kg | 1 | 10/9/2021 7:07:36 AM |
| Surr: DNOP | 114 | 70-130 | | %Rec | 1 | 10/9/2021 7:07:36 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 4:12:00 PM |
| Surr: BFB | 110 | 70-130 | | %Rec | 5 | 10/5/2021 4:12:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 4:12:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 4:12:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 4:12:00 PM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/5/2021 4:12:00 PM |
| Surr: 4-Bromofluorobenzene | 96.5 | 70-130 | | %Rec | 5 | 10/5/2021 4:12:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 960 | 60 | | mg/Kg | 20 | 10/7/2021 3:09:29 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS23

Project: MC COM 160

Collection Date: 9/28/2021 3:02:00 PM

Lab ID: 2109H25-023

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 10/9/2021 7:31:21 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 10/9/2021 7:31:21 AM |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 10/9/2021 7:31:21 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/5/2021 4:32:00 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 10/5/2021 4:32:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 4:32:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 4:32:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/5/2021 4:32:00 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/5/2021 4:32:00 PM |
| Surr: 4-Bromofluorobenzene | 90.4 | 70-130 | | %Rec | 1 | 10/5/2021 4:32:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 230 | 60 | | mg/Kg | 20 | 10/7/2021 3:46:45 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS24

Project: MC COM 160

Collection Date: 9/28/2021 3:04:00 PM

Lab ID: 2109H25-024

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 290 | 9.9 | | mg/Kg | 1 | 10/9/2021 7:55:13 AM |
| Motor Oil Range Organics (MRO) | 250 | 50 | | mg/Kg | 1 | 10/9/2021 7:55:13 AM |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 10/9/2021 7:55:13 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 4:51:00 PM |
| Surr: BFB | 108 | 70-130 | | %Rec | 5 | 10/5/2021 4:51:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 4:51:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 4:51:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 4:51:00 PM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/5/2021 4:51:00 PM |
| Surr: 4-Bromofluorobenzene | 98.4 | 70-130 | | %Rec | 5 | 10/5/2021 4:51:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 1400 | 60 | | mg/Kg | 20 | 10/7/2021 3:59:10 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS25

Project: MC COM 160

Collection Date: 9/28/2021 3:06:00 PM

Lab ID: 2109H25-025

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 490 | 9.8 | | mg/Kg | 1 | 10/9/2021 5:07:10 PM |
| Motor Oil Range Organics (MRO) | 400 | 49 | | mg/Kg | 1 | 10/9/2021 5:07:10 PM |
| Surr: DNOP | 114 | 70-130 | | %Rec | 1 | 10/9/2021 5:07:10 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 5:11:00 PM |
| Surr: BFB | 113 | 70-130 | | %Rec | 5 | 10/5/2021 5:11:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 5:11:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 5:11:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 5:11:00 PM |
| Xylenes, Total | ND | 0.47 | | mg/Kg | 5 | 10/5/2021 5:11:00 PM |
| Surr: 4-Bromofluorobenzene | 96.1 | 70-130 | | %Rec | 5 | 10/5/2021 5:11:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 3000 | 150 | | mg/Kg | 50 | 10/8/2021 7:18:20 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS26

Project: MC COM 160

Collection Date: 9/28/2021 3:10:00 PM

Lab ID: 2109H25-026

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 13 | 9.6 | | mg/Kg | 1 | 10/9/2021 8:19:07 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/9/2021 8:19:07 AM |
| Surr: DNOP | 102 | 70-130 | | %Rec | 1 | 10/9/2021 8:19:07 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2021 5:30:00 PM |
| Surr: BFB | 100 | 70-130 | | %Rec | 1 | 10/5/2021 5:30:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 5:30:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 5:30:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 5:30:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 10/5/2021 5:30:00 PM |
| Surr: 4-Bromofluorobenzene | 90.6 | 70-130 | | %Rec | 1 | 10/5/2021 5:30:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 190 | 60 | | mg/Kg | 20 | 10/7/2021 7:42:36 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS27

Project: MC COM 160

Collection Date: 9/28/2021 3:11:00 PM

Lab ID: 2109H25-027

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 10/9/2021 8:43:06 AM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 10/9/2021 8:43:06 AM |
| Surr: DNOP | 100 | 70-130 | | %Rec | 1 | 10/9/2021 8:43:06 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/5/2021 5:50:00 PM |
| Surr: BFB | 100 | 70-130 | | %Rec | 1 | 10/5/2021 5:50:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 5:50:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 5:50:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 5:50:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 10/5/2021 5:50:00 PM |
| Surr: 4-Bromofluorobenzene | 88.9 | 70-130 | | %Rec | 1 | 10/5/2021 5:50:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 550 | 60 | | mg/Kg | 20 | 10/7/2021 7:55:01 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS28

Project: MC COM 160

Collection Date: 9/28/2021 3:12:00 PM

Lab ID: 2109H25-028

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 10/9/2021 9:07:03 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 10/9/2021 9:07:03 AM |
| Surr: DNOP | 102 | 70-130 | | %Rec | 1 | 10/9/2021 9:07:03 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/5/2021 6:10:00 PM |
| Surr: BFB | 97.7 | 70-130 | | %Rec | 1 | 10/5/2021 6:10:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 10/5/2021 6:10:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 6:10:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/5/2021 6:10:00 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 10/5/2021 6:10:00 PM |
| Surr: 4-Bromofluorobenzene | 88.8 | 70-130 | | %Rec | 1 | 10/5/2021 6:10:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 140 | 61 | | mg/Kg | 20 | 10/7/2021 8:07:26 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS29

Project: MC COM 160

Collection Date: 9/28/2021 3:14:00 PM

Lab ID: 2109H25-029

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 150 | 9.8 | | mg/Kg | 1 | 10/9/2021 9:31:03 AM |
| Motor Oil Range Organics (MRO) | 180 | 49 | | mg/Kg | 1 | 10/9/2021 9:31:03 AM |
| Surr: DNOP | 107 | 70-130 | | %Rec | 1 | 10/9/2021 9:31:03 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2021 6:29:00 PM |
| Surr: BFB | 97.9 | 70-130 | | %Rec | 1 | 10/5/2021 6:29:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 6:29:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 6:29:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 6:29:00 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/5/2021 6:29:00 PM |
| Surr: 4-Bromofluorobenzene | 86.7 | 70-130 | | %Rec | 1 | 10/5/2021 6:29:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 2200 | 60 | | mg/Kg | 20 | 10/7/2021 8:19:51 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS30

Project: MC COM 160

Collection Date: 9/28/2021 3:15:00 PM

Lab ID: 2109H25-030

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 300 | 9.6 | | mg/Kg | 1 | 10/5/2021 12:11:12 PM |
| Motor Oil Range Organics (MRO) | 230 | 48 | | mg/Kg | 1 | 10/5/2021 12:11:12 PM |
| Surr: DNOP | 110 | 70-130 | | %Rec | 1 | 10/5/2021 12:11:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 8:27:00 PM |
| Surr: BFB | 103 | 70-130 | | %Rec | 5 | 10/5/2021 8:27:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 8:27:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 8:27:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 8:27:00 PM |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 10/5/2021 8:27:00 PM |
| Surr: 4-Bromofluorobenzene | 91.4 | 70-130 | | %Rec | 5 | 10/5/2021 8:27:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 3100 | 150 | | mg/Kg | 50 | 10/8/2021 7:30:45 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS31

Project: MC COM 160

Collection Date: 9/28/2021 3:17:00 PM

Lab ID: 2109H25-031

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 10/5/2021 3:21:38 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/5/2021 3:21:38 PM |
| Surr: DNOP | 102 | 70-130 | | %Rec | 1 | 10/5/2021 3:21:38 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/5/2021 9:26:00 PM |
| Surr: BFB | 100 | 70-130 | | %Rec | 1 | 10/5/2021 9:26:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 9:26:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 9:26:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/5/2021 9:26:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/5/2021 9:26:00 PM |
| Surr: 4-Bromofluorobenzene | 88.3 | 70-130 | | %Rec | 1 | 10/5/2021 9:26:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | ND | 60 | | mg/Kg | 20 | 10/7/2021 8:44:40 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS32

Project: MC COM 160

Collection Date: 9/28/2021 3:19:00 PM

Lab ID: 2109H25-032

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 240 | 10 | | mg/Kg | 1 | 10/5/2021 2:33:53 PM |
| Motor Oil Range Organics (MRO) | 230 | 50 | | mg/Kg | 1 | 10/5/2021 2:33:53 PM |
| Surr: DNOP | 109 | 70-130 | | %Rec | 1 | 10/5/2021 2:33:53 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 10/5/2021 10:25:00 PM |
| Surr: BFB | 111 | 70-130 | | %Rec | 5 | 10/5/2021 10:25:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/5/2021 10:25:00 PM |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 10:25:00 PM |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 10/5/2021 10:25:00 PM |
| Xylenes, Total | ND | 0.49 | | mg/Kg | 5 | 10/5/2021 10:25:00 PM |
| Surr: 4-Bromofluorobenzene | 98.0 | 70-130 | | %Rec | 5 | 10/5/2021 10:25:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 1600 | 60 | | mg/Kg | 20 | 10/7/2021 8:57:05 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

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Analytical Report

Lab Order 2109H25

Date Reported: 10/15/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP

Client Sample ID: SS33

Project: MC COM 160

Collection Date: 9/28/2021 3:20:00 PM

Lab ID: 2109H25-033

Matrix: SOIL

Received Date: 9/30/2021 7:30:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/5/2021 3:45:33 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 10/5/2021 3:45:33 PM |
| Surr: DNOP | 104 | 70-130 | | %Rec | 1 | 10/5/2021 3:45:33 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: mb |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/5/2021 10:44:00 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 10/5/2021 10:44:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: mb |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 10/5/2021 10:44:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 10:44:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/5/2021 10:44:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 10/5/2021 10:44:00 PM |
| Surr: 4-Bromofluorobenzene | 92.1 | 70-130 | | %Rec | 1 | 10/5/2021 10:44:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 2500 | 150 | | mg/Kg | 50 | 10/8/2021 7:43:10 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |
| | | | | |

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-63095 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 63095 | RunNo: 81853 | | | | | | | | |
| Prep Date: 10/6/2021 | Analysis Date: 10/6/2021 | SeqNo: 2895821 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-63095 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 63095 | RunNo: 81853 | | | | | | | | |
| Prep Date: 10/6/2021 | Analysis Date: 10/6/2021 | SeqNo: 2895822 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.0 | 90 | 110 | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-63116 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 63116 | RunNo: 81856 | | | | | | | | |
| Prep Date: 10/7/2021 | Analysis Date: 10/7/2021 | SeqNo: 2896811 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-63116 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 63116 | RunNo: 81856 | | | | | | | | |
| Prep Date: 10/7/2021 | Analysis Date: 10/7/2021 | SeqNo: 2896812 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.9 | 90 | 110 | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-63118 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 63118 | RunNo: 81856 | | | | | | | | |
| Prep Date: 10/7/2021 | Analysis Date: 10/7/2021 | SeqNo: 2896850 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-63118 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 63118 | RunNo: 81856 | | | | | | | | |
| Prep Date: 10/7/2021 | Analysis Date: 10/7/2021 | SeqNo: 2896851 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.2 | 90 | 110 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: MB-63018 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 63018 | RunNo: 81800 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2896369 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 118 | 70 | 130 | | | |

| Sample ID: LCS-63018 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 63018 | RunNo: 81800 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2896370 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 94.8 | 68.9 | 135 | | | |
| Surr: DNOP | 5.7 | | 5.000 | | 113 | 70 | 130 | | | |

| Sample ID: 2109H25-030AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS30 | Batch ID: 63018 | RunNo: 81800 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2896372 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 370 | 9.7 | 48.31 | 297.3 | 147 | 39.3 | 155 | | | |
| Surr: DNOP | 6.0 | | 4.831 | | 124 | 70 | 130 | | | |

| Sample ID: 2109H25-030AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS30 | Batch ID: 63018 | RunNo: 81800 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2896373 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 330 | 10 | 49.80 | 297.3 | 61.5 | 39.3 | 155 | 11.6 | 23.4 | |
| Surr: DNOP | 6.0 | | 4.980 | | 120 | 70 | 130 | 0 | 0 | |

| Sample ID: MB-62999 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 62999 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/7/2021 | SeqNo: 2897828 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 13 | | 10.00 | | 129 | 70 | 130 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: LCS-62999 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 62999 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/7/2021 | SeqNo: 2897829 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 10 | 50.00 | 0 | 114 | 68.9 | 135 | | | |
| Surr: DNOP | 6.7 | | 5.000 | | 134 | 70 | 130 | | | S |

| Sample ID: MB-63004 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 63004 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/9/2021 | SeqNo: 2900962 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 123 | 70 | 130 | | | |

| Sample ID: LCS-63004 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 63004 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/9/2021 | SeqNo: 2900963 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 106 | 68.9 | 135 | | | |
| Surr: DNOP | 6.2 | | 5.000 | | 123 | 70 | 130 | | | |

| Sample ID: 2109H25-010AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|-------|----------|-----------|------|----------|------|
| Client ID: SS10 | Batch ID: 63004 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/9/2021 | SeqNo: 2900965 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 130 | 9.5 | 47.48 | 154.1 | -47.9 | 39.3 | 155 | | | S |
| Surr: DNOP | 5.2 | | 4.748 | | 109 | 70 | 130 | | | |

| Sample ID: 2109H25-010AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS10 | Batch ID: 63004 | RunNo: 81862 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/9/2021 | SeqNo: 2900966 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 180 | 9.5 | 47.44 | 154.1 | 61.0 | 39.3 | 155 | 32.9 | 23.4 | R |
| Surr: DNOP | 5.5 | | 4.744 | | 116 | 70 | 130 | 0 | 0 | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: mb-62983 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893759 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 1100 | | 1000 | | 107 | 70 | 130 | | | |

| Sample ID: mb-63008 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893760 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 70 | 130 | | | |

| Sample ID: lcs-62983 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893761 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29 | 5.0 | 25.00 | 0 | 116 | 78.6 | 131 | | | |
| Surr: BFB | 1200 | | 1000 | | 119 | 70 | 130 | | | |

| Sample ID: lcs-63008 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893762 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 31 | 5.0 | 25.00 | 0 | 123 | 78.6 | 131 | | | |
| Surr: BFB | 1200 | | 1000 | | 115 | 70 | 130 | | | |

| Sample ID: 2109H25-010ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS10 | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893763 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 35 | 24 | 23.97 | 0 | 146 | 61.3 | 114 | | | S |
| Surr: BFB | 5700 | | 4794 | | 119 | 70 | 130 | | | |

| Sample ID: 2109H25-030ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS30 | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893764 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: 2109H25-030ams | SampType: MS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SS30 | Batch ID: 63008 | | RunNo: 81809 | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | | SeqNo: 2893764 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 40 | 24 | 24.08 | 0 | 165 | 61.3 | 114 | | | S |
| Surr: BFB | 5600 | | 4817 | | 116 | 70 | 130 | | | |

| Sample ID: 2109H25-010amsd | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SS10 | Batch ID: 62983 | | RunNo: 81809 | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | | SeqNo: 2893765 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 32 | 24 | 23.85 | 0 | 132 | 61.3 | 114 | 10.5 | 20 | S |
| Surr: BFB | 5600 | | 4771 | | 117 | 70 | 130 | 0 | 0 | |

| Sample ID: 2109H25-030amsd | SampType: MSD | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: SS30 | Batch ID: 63008 | | RunNo: 81809 | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | | SeqNo: 2893766 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 41 | 24 | 24.04 | 0 | 172 | 61.3 | 114 | 3.61 | 20 | S |
| Surr: BFB | 5500 | | 4808 | | 114 | 70 | 130 | 0 | 0 | |

| Sample ID: lcs-62982 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 62982 | | RunNo: 81821 | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | | SeqNo: 2894442 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 101 | 78.6 | 131 | | | |
| Surr: BFB | 1000 | | 1000 | | 104 | 70 | 130 | | | |

| Sample ID: mb-62982 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 62982 | | RunNo: 81821 | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | | SeqNo: 2894443 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 960 | | 1000 | | 96.2 | 70 | 130 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: mb-62983 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893811 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.7 | 70 | 130 | | | |

| Sample ID: mb-63008 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893812 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.7 | 70 | 130 | | | |

| Sample ID: lcs-62983 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893813 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.0 | 70 | 130 | | | |

| Sample ID: lcs-63008 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893814 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 1.000 | 0 | 97.1 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 97.7 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.6 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 1.000 | | 86.6 | 70 | 130 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

| Sample ID: 2109H25-011ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS11 | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893822 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.12 | 0.9625 | 0 | 106 | 80 | 120 | | | |
| Toluene | 1.0 | 0.24 | 0.9625 | 0 | 108 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.24 | 0.9625 | 0 | 107 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.48 | 2.887 | 0 | 111 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 4.5 | | 4.812 | | 93.2 | 70 | 130 | | | |

| Sample ID: 2109H25-031ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS31 | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893823 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9533 | 0 | 109 | 80 | 120 | | | |
| Toluene | 1.0 | 0.048 | 0.9533 | 0 | 110 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.048 | 0.9533 | 0 | 110 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.095 | 2.860 | 0 | 111 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.84 | | 0.9533 | | 88.2 | 70 | 130 | | | |

| Sample ID: 2109H25-011amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: SS11 | Batch ID: 62983 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/1/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893827 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.2 | 0.12 | 0.9355 | 0 | 129 | 80 | 120 | 16.3 | 20 | S |
| Toluene | 1.2 | 0.23 | 0.9355 | 0 | 132 | 80 | 120 | 16.5 | 20 | S |
| Ethylbenzene | 1.2 | 0.23 | 0.9355 | 0 | 132 | 80 | 120 | 18.3 | 20 | S |
| Xylenes, Total | 4.0 | 0.47 | 2.806 | 0 | 142 | 80 | 120 | 21.4 | 20 | RS |
| Surr: 4-Bromofluorobenzene | 4.3 | | 4.677 | | 92.0 | 70 | 130 | 0 | 0 | |

| Sample ID: 2109H25-031amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: SS31 | Batch ID: 63008 | RunNo: 81809 | | | | | | | | |
| Prep Date: 10/4/2021 | Analysis Date: 10/5/2021 | SeqNo: 2893830 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.024 | 0.9671 | 0 | 108 | 80 | 120 | 1.03 | 20 | |
| Toluene | 1.0 | 0.048 | 0.9671 | 0 | 107 | 80 | 120 | 0.972 | 20 | |
| Ethylbenzene | 1.0 | 0.048 | 0.9671 | 0 | 106 | 80 | 120 | 2.29 | 20 | |
| Xylenes, Total | 3.0 | 0.097 | 2.901 | 0 | 105 | 80 | 120 | 4.19 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.84 | | 0.9671 | | 86.9 | 70 | 130 | 0 | 0 | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109H25

15-Oct-21

Client: WSP
Project: MC COM 160

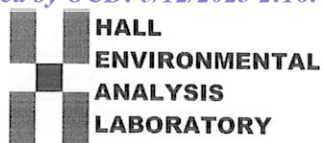
| | | | | | | | | | | |
|-----------------------------|--------|---------------------------------|-----------|-------------|--|----------|---------------------|------|----------|------|
| Sample ID: LCS-62982 | | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: LCSS | | Batch ID: 62982 | | | RunNo: 81821 | | | | | |
| Prep Date: 10/1/2021 | | Analysis Date: 10/5/2021 | | | SeqNo: 2894544 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.025 | 1.000 | 0 | 98.8 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.9 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 98.3 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 1.000 | | 86.6 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|--------|---------------------------------|-----------|-------------|--|----------|---------------------|------|----------|------|
| Sample ID: mb-62982 | | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: PBS | | Batch ID: 62982 | | | RunNo: 81821 | | | | | |
| Prep Date: 10/1/2021 | | Analysis Date: 10/5/2021 | | | SeqNo: 2894545 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 86.2 | 70 | 130 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: WSP

Work Order Number: 2109H25

RcptNo: 1

Received By: Cheyenne Cason 9/30/2021 7:30:00 AM

Completed By: Isaiah Ortiz 9/30/2021 9:01:09 AM

Reviewed By: KRC 10/01/21
KRC 10/01/21Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: JA 10-1-21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

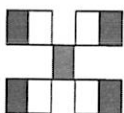
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.8 | Good | Not Present | | | |
| 2 | 1.4 | Good | Not Present | | | |
| 3 | 3.4 | Good | Not Present | | | |

Page 2 of 3



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Chain-of-Custody Record

| | | |
|----------------------------------|------------------|--|
| <h1>Chain-of-Custody Record</h1> | Client: | Turn-Around Time: |
| | Mailing Address: | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush |
| | | Project Name: |
| | Phone #: | Project #: |

| | | |
|-------------------------------------|--|-----------------------------|
| email or Fax#: | Project Manager: | |
| QA/QC Package: | | |
| <input type="checkbox"/> Standard | <input type="checkbox"/> Level 4 (Full Validation) | |
| Accreditation: | <input type="checkbox"/> Az Compliance | |
| <input type="checkbox"/> NELAC | <input type="checkbox"/> Other | |
| <input type="checkbox"/> EDD (Type) | | |
| On Ice: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| # of Coolers: | 3 | |

| Cooler Temp (including CF): <i>See first page</i> (°C) | | HEAL No. | Preservative Type | Container Type and # | Sample Name | Matrix | Time | Date |
|--|--|----------|-------------------|----------------------|-------------|--------|------|---------|
| | | 2109425 | cool | (1) 402 | SS13 | soil | 1445 | 9-28-21 |
| | | 013 | | | SS14 | | 1447 | |
| | | 014 | | | SS15 | | 1449 | |
| | | 015 | | | SS16 | | 1450 | |
| | | 016 | | | SS17 | | 1452 | |
| | | 017 | | | SS18 | | 1453 | |
| | | 018 | | | SS19 | | 1456 | |
| | | 019 | | | SS20 | | 1457 | |
| | | 020 | | | SS21 | | 1459 | |
| | | 021 | | | SS22 | | 1500 | |
| | | 022 | | | SS23 | | 1502 | |
| | | 023 | | | SS24 | | 1504 | |
| | | 024 | | | | | | |

| Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---------------|-----------------------|---------------------|------|---------|------|
| 12-29-21 1203 | <i>Garth Williams</i> | <i>Mr. Williams</i> | | 9/29/21 | 1203 |
| 12-29-21 1826 | <i>Garth Williams</i> | <i>Mr. Williams</i> | | 9/30/21 | 2710 |

Analysis Request

[illegible]

Remarks:

Chain-of-Custody Record

Client:

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

MC com #160

Project #:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CF): See first page (°C)

Date Time Matrix Sample Name

9-20-21 1506 50:1 SS25

1510 SS26

1511 SS27

1512 SS28

1514 SS29

1515 SS30

1517 SS31

1519 SS32

1520 SS33

Container Type and #

01402

Preservative Type

cool

HEAL No.

2109475

BTEx / MIB / LMB (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Analysis Request

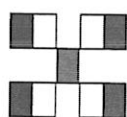
Remarks:

Received by: Date Time

Via: 9/29/21 1203

Received by: Date Time

Via: 9/30/21 0710

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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 216568

CONDITIONS

| | |
|--|---|
| Operator: Whiptail Midstream LLC 15 West 6th Street Tulsa, OK 74119 | OGRID: 373240 |
| | Action Number: 216568 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| csmith | Submit additional Remediation Plan/ Deferral request No later than September 8th 2023. | 7/5/2023 |