State of New Mexico
Oil Conservation Division

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: Heather M. Woods Date: 09/08/2023

email: Heather.Woods@WhiptailMidstream.com Telephone: (505) 636-0574

OCD Only

Received by: Jocelyn Harimon Date: 09/11/2023

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

Signature: Nelson Velez Date: 10/20/2023

App ID 264084: Deferral is approved. Remediation Due date will be left open until the site has been decommissioned.

WHIPTAIL MIDSTREAM
1703 Calder Street, Farmington, New Mexico 87401

September 8, 2023

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

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

Dear Mr. Bratcher:

Whiptail Midstream, LLC (Whiptail) submits this revised Remediation Plan for the MC COM #160 release (nAPP2125652492) which describes the remediation completed to date, delineation activities and results, and a deferral request for the defined area exceeding the reclamation requirements at depths ranging from the surface to four feet below grade surface (bgs).

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 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:		
Description	*Y/N*	*Reference*
(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 chloride 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 proposed 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 advanced 10 soil borings outside the perimeter of the release area as illustrated on Figure 4. Excavation confirmation samples demonstrating concentrations of benzene, BTEX, TPH and chloride below the reclamation standards in the southwest corner of the release area (SS21, SS26, SS27, and SS31) are 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 borings were advanced to approximately two feet bgs to investigate possible subsurface horizontal migration of the release fluids at and below this depth.

Samples were collected at 6-inch intervals from each boring location to the total depth of two feet bgs. Samples were field screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and for chlorides using a direct reading titrator. A minimum of two samples from each boring were 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.

Laboratory analytical results for the delineation samples report the following:

- Benzene concentrations are below the laboratory reporting limits which are below the reclamation requirement of 10 mg/kg.
- Total BTEX concentrations are below the laboratory reporting limits which are below the reclamation requirement of 50 mg/kg.
- Total TPH as GRO/DRO/MRO concentrations range from below the laboratory reporting limits to 490 mg/kg which are below the reclamation requirement of 100 mg/kg.
- Chloride concentrations range from below the laboratory reporting limits to 61 mg/kg which are below the reclamation requirement of 600 mg/kg.

Laboratory analytical results indicate that concentrations of benzene, total BTEX, total TPH and chloride are below the reclamation requirements for all the delineation samples. Analytical results are summarized in Table 2 and the laboratory report is included in Appendix F.

Remediation Plan/Remediation Deferral Request

Delineation results demonstrate that the residually impacted area within the upper four feet of the release area has been defined and lies within areas currently in use in areas reasonably needed for production operations. Whiptail requests a deferral of the remediation of the residually impacted area estimated to be approximately 6,250 square feet and a maximum depth of 4 feet bgs, or 926 cubic yards, as illustrated on Figure 4, until such time that the area is no longer reasonably needed for production operations. At such time, remediation will be accomplished by excavation and disposal at an approved landfarm facility or according to a remediation plan submitted and approved by the New Mexico Oil Conservation Division (NMOCD) prior to operations. Notification, confirmation sampling and reporting will be completed in accordance to 19.15.29 NMAC, or as otherwise stipulated in a revised, NMOCD approved remediation plan. Remediation activities will likely coincide and be affected by remediation efforts for other releases impacting the site.

Whiptail appreciates the opportunity to provide this revised remediation plan and deferral request 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

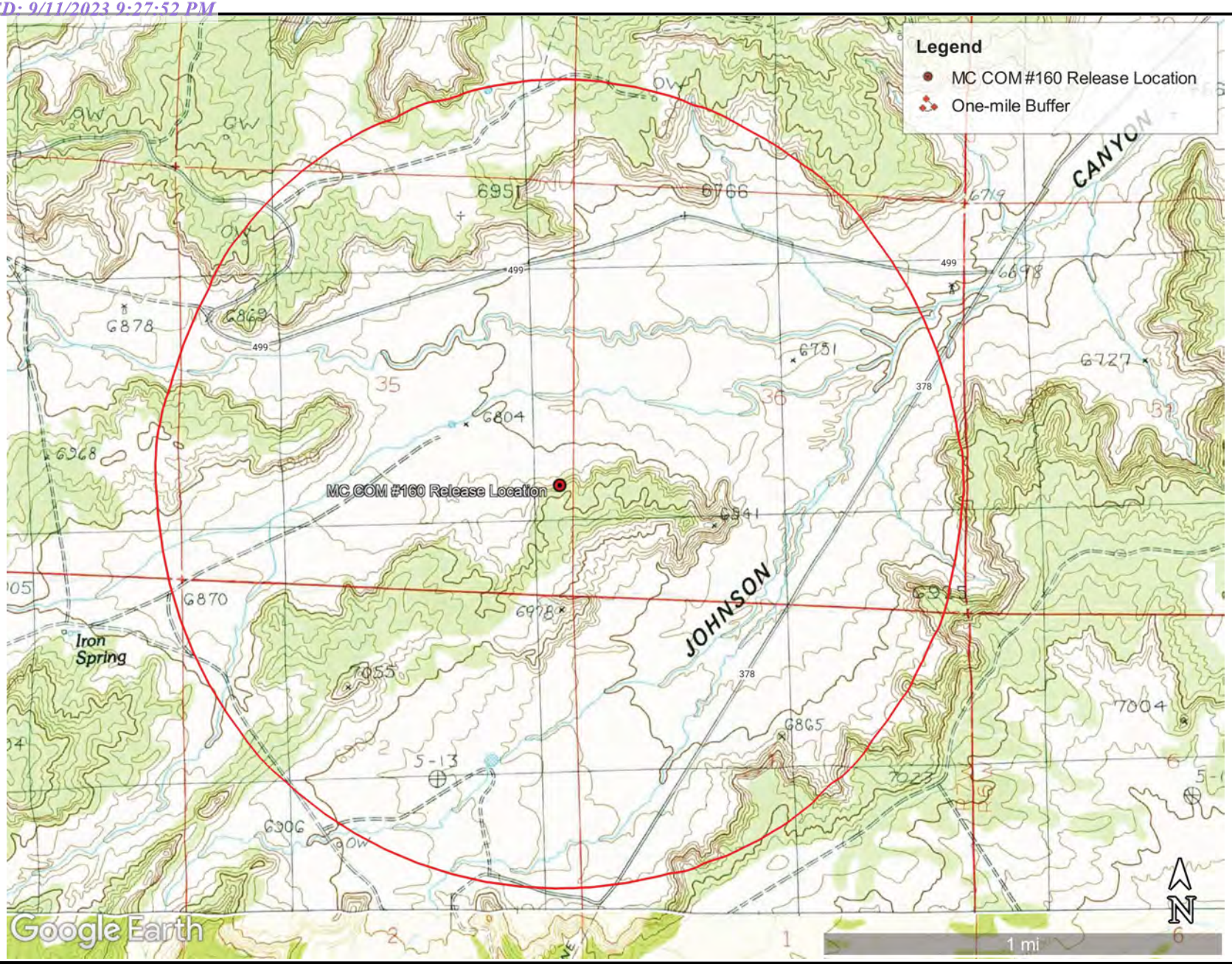
Heather M. Woods, PG
EHS Specialist

Figures:

Table:

Appendices:

Figures



WHIPTAIL MIDSTREAM

MC COM #160

Whiptail Midstream, LLC

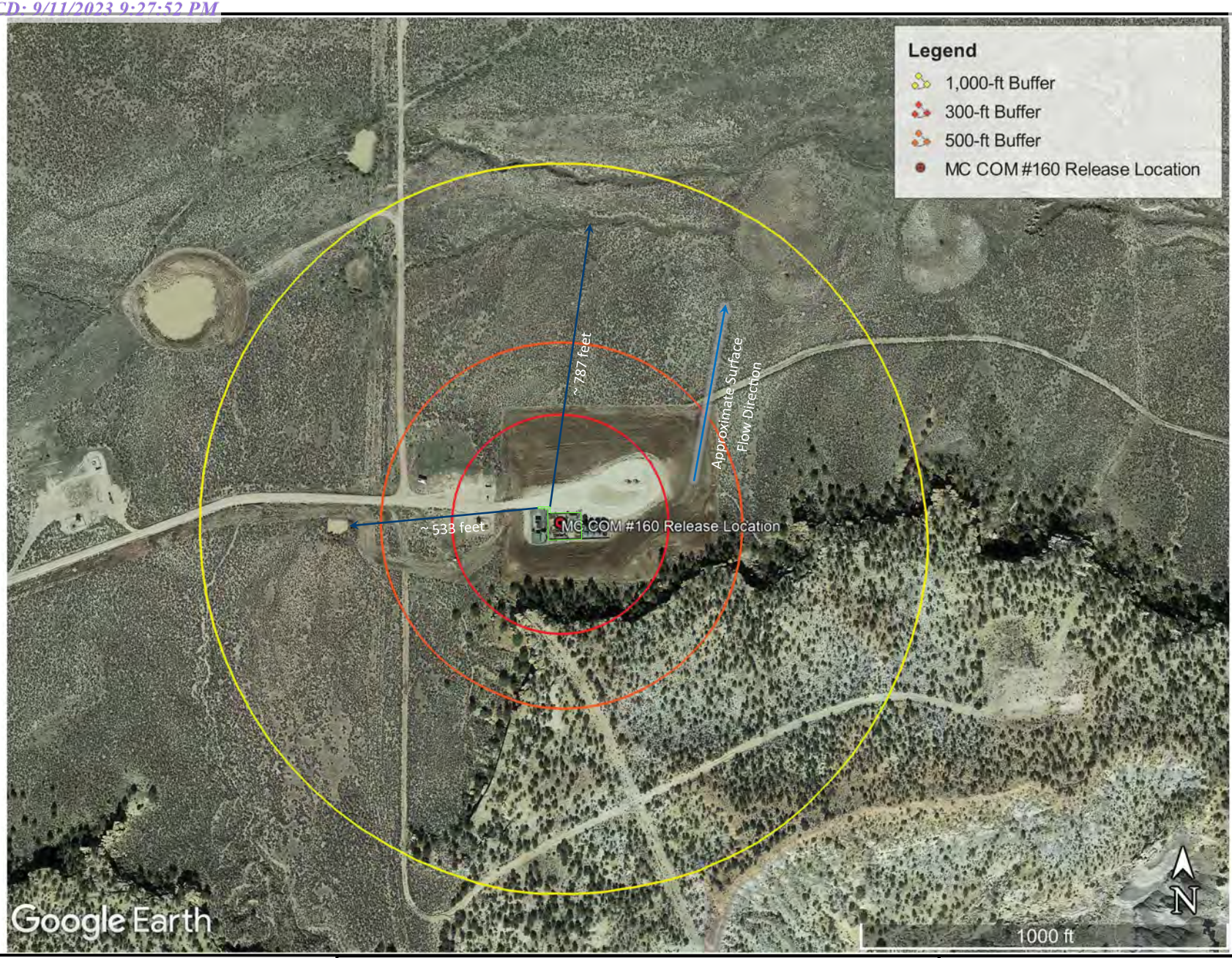
UL I, S35, T24N R07W NMPM

Rio Arriba County, New Mexico

36.265271, -107.537467 (NAD 83)

Figure 1

Topographic Map



WHIPTAIL MIDSTREAM

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

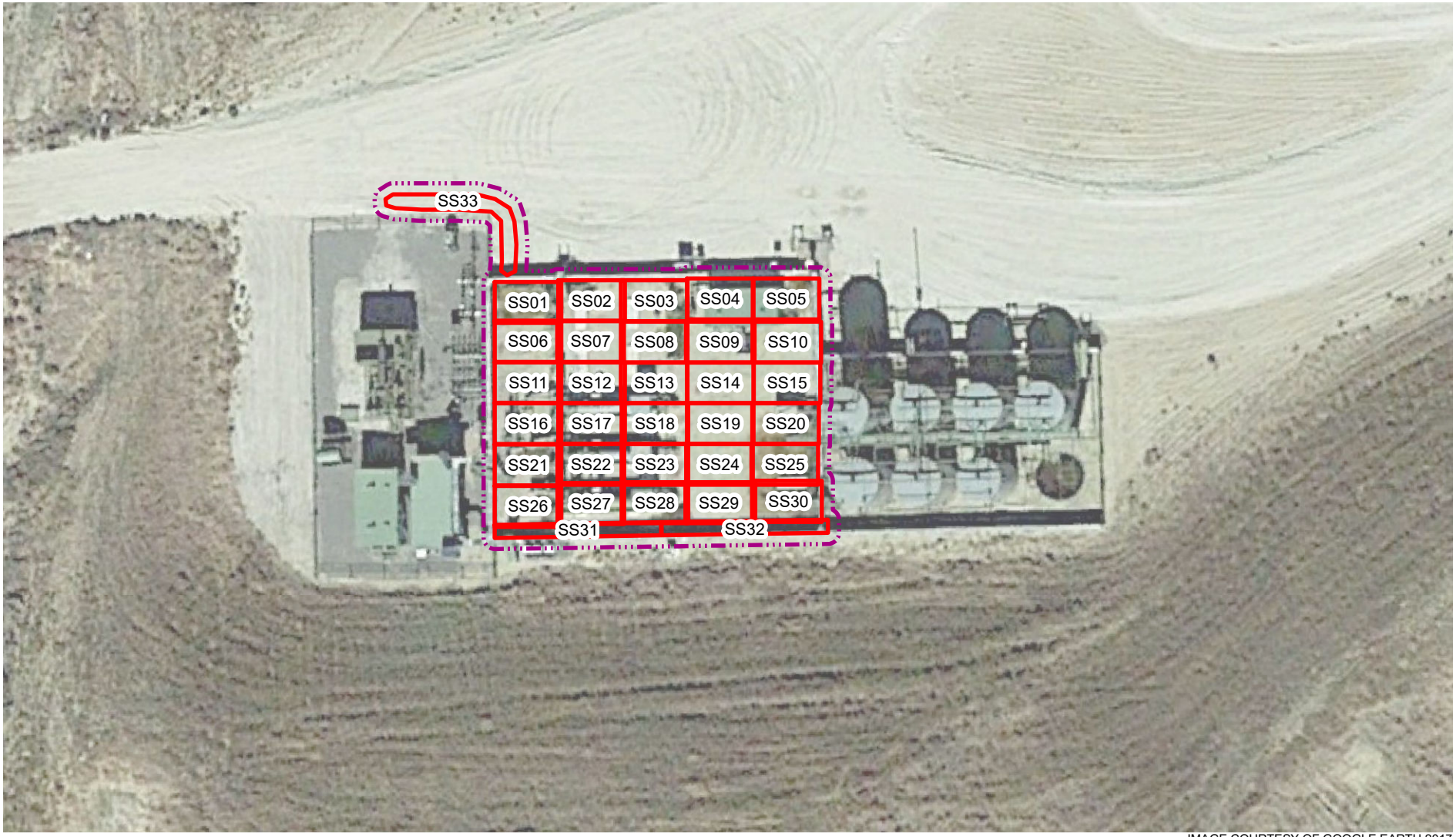


IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

RELEASE PATH

CONFIRMATION SOIL SAMPLE LOCATION

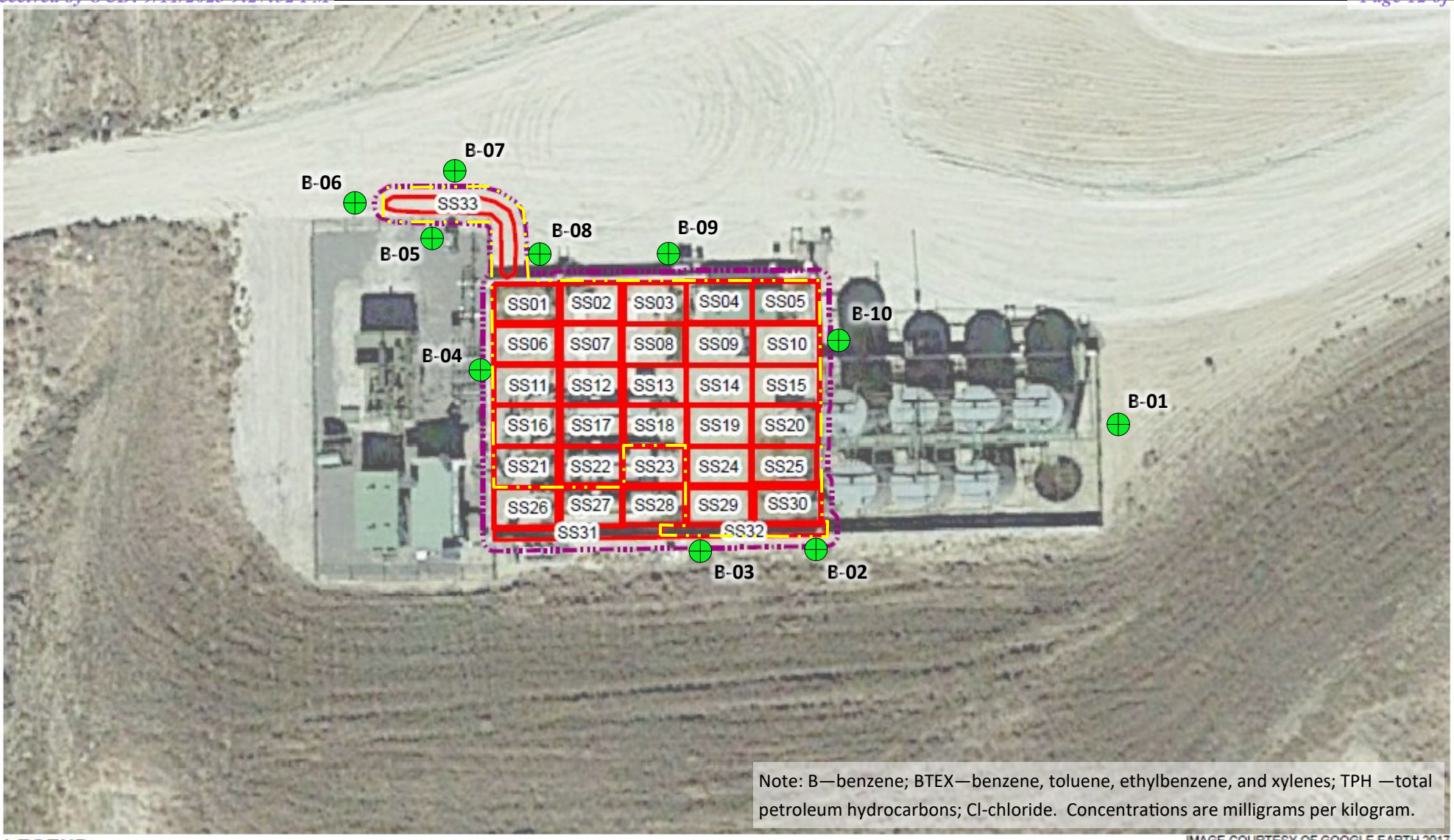
0 40 80

Feet

N

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

C:\Users\USTJ689650\OneDrive - WSP O365\WHIPTAIL ENERGY\31403189_002_MC COM 160\MXD\31403189_002_FIG03_SITE_2021.mxd



WHIPTAIL MIDSTREAM

MC Com #160

Whiptail Midstream, LLC

UL I, S35, T24N R07W NMPM

Rio Arriba County, New Mexico

36.265271, -107.537467 (NAD 83)

Figure 4

Soil Boring Location Map

Tables

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)	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)
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

Table 2: Summary of Field Screening and Laboratory Analytical Results for Delineation Samples **MC Com #160**

Sample ID	Date	Depth (ft bgs)	Field Screening		Laboratory Analytical Analysis										
			VOCs by PID (ppm)	Chloride (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (GRO) (mg/kg)	TPH (DRO) (mg/kg)	TPH (GRO + DRO) (mg/kg)	TPH (MRO) (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
Closure Criteria (4+ ft)					**10**	**--**	**--**	**--**	**50**	**--**	**--**	**1,000**	**--**	**2,500**	**20,000**
Reclamation Requirement (0 - 4 ft)					**10**	**--**	**--**	**--**	**50**	**--**	**--**	**--**	**--**	**100**	**600**
B-01	8/25/2023	0 - 0.5	0.0	20	--	--	--	--	--	--	--	--	--	--	--
		0.5 - 1	0.1	22	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	30	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<10	ND	<50	ND	<60
		1.5 - 2	0.1	24	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.6	ND	<48	ND	<60
B-02	8/25/2023	0 - 0.5	0.1	36	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.4	ND	<47	ND	<60
		0.5 - 1	0.1	24	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	12	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	16	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.9	ND	<50	ND	<61
B-03	8/25/2023	0 - 0.5	0.0	22	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.4	ND	<47	ND	<60
		0.5 - 1	0.0	20	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	18	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	16	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.5	ND	<48	ND	<60
B-04	8/25/2023	0 - 0.5	0.1	20	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	ND	<49	ND	<60
		0.5 - 1	0.1	20	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	12	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	12	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.9	ND	<49	ND	<59
B-05	8/25/2023	0 - 0.5	0.1	32	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.4	ND	<47	ND	<60
		0.5 - 1	0.1	28	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	26	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	38	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.6	ND	<48	ND	**61**
B-06	8/25/2023	0 - 0.5	0.0	16	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.7	ND	<49	ND	<59
		0.5 - 1	0.0	18	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.0	16	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	16	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.8	ND	<49	ND	<60
B-07	8/25/2023	0 - 0.5	0.0	12	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.7	ND	<49	ND	<60
		0.5 - 1	0.0	12	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.0	10	--	--	--	--	--	--	--	--	--	--	--
		1.5 - 2	0.1	8	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<8.9	ND	<44	ND	<60
B-08	8/25/2023	0 - 0.5	0.1	16	--	--	--	--	--	--	--	--	--	--	--
		0.5 - 1	0.1	16	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	18	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<10	ND	<50	ND	<60
		1.5 - 2	0.1	32	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.1	ND	<46	ND	<60

B-09	8/25/2023	0 - 0.5	0.0	16	--	--	--	--	--	--	--	--	--	--	--
		0.5 - 1	0.1	12	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	16	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.9	ND	<49	ND	<61
		1.5 - 2	0.1	16	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.2	ND	<46	ND	<60
B-10	8/25/2023	0 - 0.5	0.1	12	--	--	--	--	--	--	--	--	--	--	--
		0.5 - 1	0.1	12	--	--	--	--	--	--	--	--	--	--	--
		1 - 1.5	0.1	16	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.3	ND	<47	ND	<60
		1.5 - 2	0.1	16	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.7	ND	<48	ND	<60

Notes:
VOC - volitile organic compound
PID - photoionization detector
BTEX - benzene, toluene, ethylbenzene, and xylenes
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
MRO - motor oil range organics
ft - feet
bgs - below grade surface
mg/kg - milligram per kilogram
ND - not detectable above laboratory reporting limits
"--" not applicable

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 T24N R7W State: New Mexico Rig: Stang #1

Ground Bed Depth: 360' Water Depth: 142' Diameter: 10"

Fuel: 98 gal Latitude: Longitude:

DEPTH	FORMATION	OTHER
0-40	Sand Stone, Shale, Sand w/ Shale w/ Sand	PVC
40-110	Sand Stone, Shale, Sand w/ Shale w/ Sand	
110-200	Sand Stone, Shale, Sand w/ Shale w/ Sand	
200-260	Sand Stone, Shale, Sand w/ Shale w/ Sand	
260-360	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	

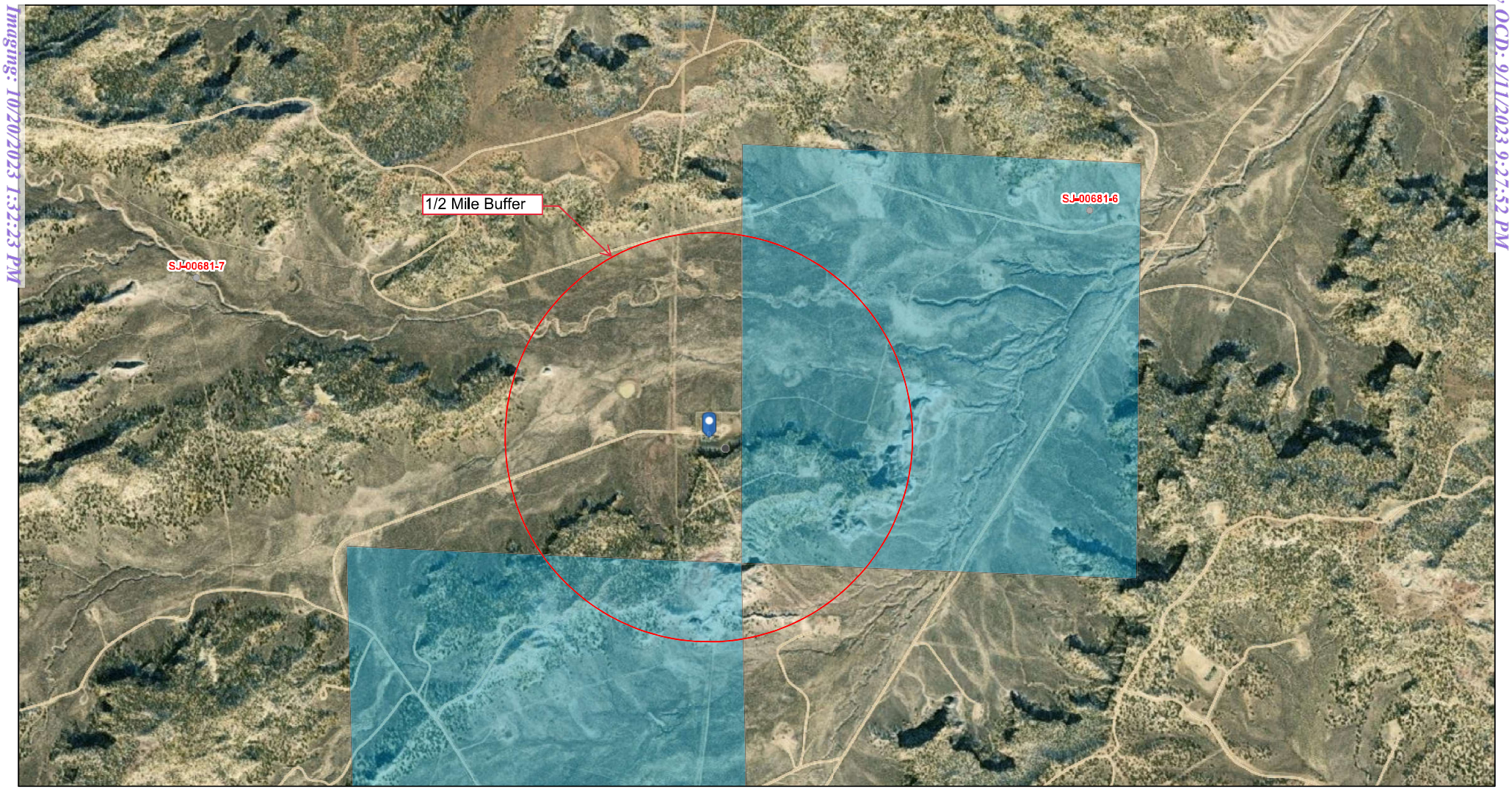
GROUNDWATER DEPTH LOG

Company: WPX Energy Location: Chaco #159H #160H #901H

Probe type: Powerwell Sounder

Date	Time	Depth	Comments
9-11-15	7:30am	40'	Drilled 40'
	8:30am	40'	test: No water
	9:00	100'	Drilled 60' - Set PVC
	10:00	60'	test: No water
	11:15	115'	Drilled 115'
	12:15	115'	test: no water
	4:30	360'	test water @ 142'
9-14-15	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

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

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

Web Generated Map
Map is generated by web users.

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

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

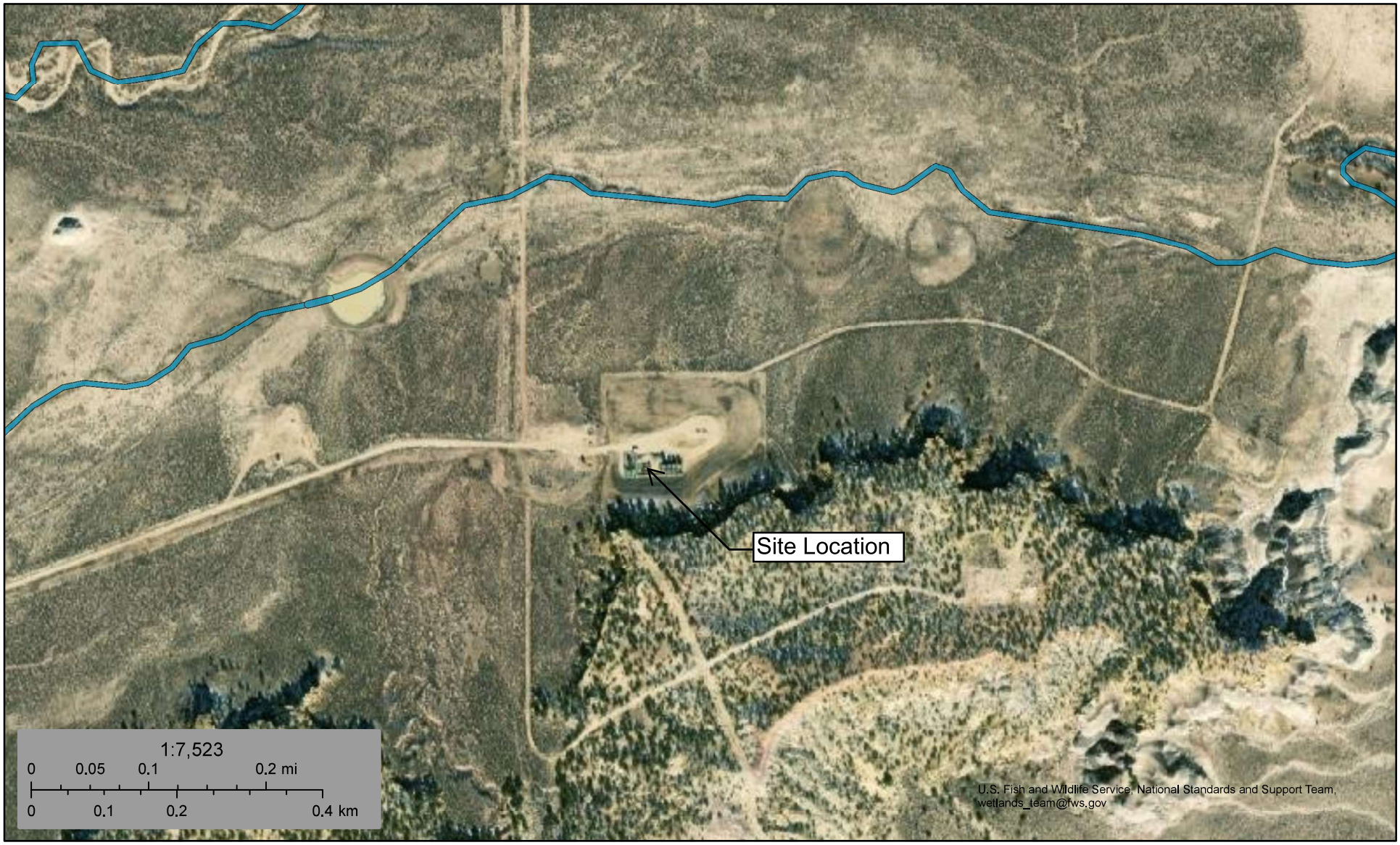
PLSS Search:

Section(s): 35, 36 **Township:** 24N **Range:** 07W

Appendix B: Wetland Map

U.S. Fish and Wildlife Service
National Wetlands Inventory

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Appendix C: Mine Maps

Active Mines in New Mexico

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

1:577,791

0 4 8 16 mi

0 5 10 20 km

Registered Mines

- Aggregate, Stone etc.
- Humate

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

EMNRD MMD GIS Coordinator

New Mexico Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Coal Mines in New Mexico

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

NM Coal Districts

1:577,791

0 4 8 16 mi

0 5 10 20 km

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

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappbuilder/index.html?id=7ebfa3c432db42978d66c99a9cc8311a)

Appendix D: Floodplain Map

National Flood Hazard Layer FIRMette

107°32'36"W 36°16'11"N

107°31'59"W 36°15'42"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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.

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).

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).

Continued Photograph Log
MC COM #160

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.

Appendix F: Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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,

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 Quanitative 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: 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 Quanitative 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: 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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-004 **Matrix:** SOIL

Client Sample ID: SS04
Collection Date: 9/28/2021 2:25:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-005 **Matrix:** SOIL

Client Sample ID: SS05
Collection Date: 9/28/2021 2:27:00 PM
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 Quanitative 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: 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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-007 **Matrix:** SOIL

Client Sample ID: SS07
Collection Date: 9/28/2021 2:33:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-008 **Matrix:** SOIL

Client Sample ID: SS08
Collection Date: 9/28/2021 2:35:00 PM
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.	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 Quanitative 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: 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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-011 **Matrix:** SOIL

Client Sample ID: SS11
Collection Date: 9/28/2021 2:41:00 PM
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.	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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-012 **Matrix:** SOIL

Client Sample ID: SS12
Collection Date: 9/28/2021 2:43:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-013 **Matrix:** SOIL

Client Sample ID: SS13
Collection Date: 9/28/2021 2:45:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-014 **Matrix:** SOIL

Client Sample ID: SS14
Collection Date: 9/28/2021 2:47:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-015 **Matrix:** SOIL

Client Sample ID: SS15
Collection Date: 9/28/2021 2:49:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-016 **Matrix:** SOIL

Client Sample ID: SS16
Collection Date: 9/28/2021 2:50:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-017 **Matrix:** SOIL

Client Sample ID: SS17
Collection Date: 9/28/2021 2:42:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-018 **Matrix:** SOIL

Client Sample ID: SS18
Collection Date: 9/28/2021 2:53:00 PM
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 Quanitative 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: 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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-020 **Matrix:** SOIL

Client Sample ID: SS20
Collection Date: 9/28/2021 2:57:00 PM
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 Quanitative 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: 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 Quanitative 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: 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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-023 **Matrix:** SOIL

Client Sample ID: SS23
Collection Date: 9/28/2021 3:02:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-024 **Matrix:** SOIL

Client Sample ID: SS24
Collection Date: 9/28/2021 3:04:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-025 **Matrix:** SOIL

Client Sample ID: SS25
Collection Date: 9/28/2021 3:06:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-026 **Matrix:** SOIL

Client Sample ID: SS26
Collection Date: 9/28/2021 3:10:00 PM
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 Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-027 **Matrix:** SOIL

Client Sample ID: SS27
Collection Date: 9/28/2021 3:11:00 PM
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 Quanitative 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
Project: MC COM 160
Lab ID: 2109H25-028 **Matrix:** SOIL

Client Sample ID: SS28
Collection Date: 9/28/2021 3:12:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-029 **Matrix:** SOIL

Client Sample ID: SS29
Collection Date: 9/28/2021 3:14:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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, Inc.

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-030 **Matrix:** SOIL

Client Sample ID: SS30
Collection Date: 9/28/2021 3:15:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-031 **Matrix:** SOIL

Client Sample ID: SS31
Collection Date: 9/28/2021 3:17:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-032 **Matrix:** SOIL

Client Sample ID: SS32
Collection Date: 9/28/2021 3:19:00 PM
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

Analytical Report
Lab Order **2109H25**
Date Reported: **10/15/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: WSP
Project: MC COM 160
Lab ID: 2109H25-033 **Matrix:** SOIL

Client Sample ID: SS33
Collection Date: 9/28/2021 3:20:00 PM
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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 Quanitative 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.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: KPA ~~9~~ 10/01/21
KPA 10/01/21

Chain 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° 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 °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			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: WSP USA Inc.
Brooke Herb
Mailing Address: 848 E. 2nd Ave
Phone #: 970-385-1096
email or Fax#: brooke.herb@wsp.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: MC COM #160
Project #:
Project Manager: Brooke Herb
Sampler: Josh Adams
On Ice: ☑ Yes ☐ No
# of Coolers: 3
Cooler Temp(including CF): See Remarks (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109H25	BTEX / MTBE / TMB's (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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-28-21	1420	soil	SS01	(1) 4oz.	cool	001	X	X					X			
	1422		SS02			002	X	X					X			
	1423		SS03			003	X	X					X			
	1425		SS04			004	X	X					X			
	1427		SS05			005	X	X					X			
	1431		SS06			006	X	X					X			
	1433		SS07			007	X	X					X			
	1435		SS08			008	X	X					X			
	1437		SS09			009	X	X					X			
	1439		SS10			010	X	X					X			
	1441		SS11			011	X	X					X			
↓	1443	↓	SS12	↓	↓	012	X	X					X			

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9-28-21	1203	Josh Adams	Chad Walls		9/29/21	1203
9/29/21	1826	Chad Walls	Courier		9/30/21	07:30

Remarks:
2.8-0=2.8
1.4-0=1.4
3.4-0=3.4
cc. ~~jadams~~ josh.adams@wsp.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client:

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: MC COM #160

Project #:

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 3

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109125	BTEX / MTBE / TMB's (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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-28-21	1445	soil	SS13	(1) 4oz	cool	013	X	X					X			
	1447		SS14			014	X	X					X			
	1449		SS15			015	X	X					X			
	1450		SS16			016	X	X					X			
	1452		SS17			017	X	X					X			
	1453		SS18			018	X	X					X			
	1456		SS19			019	X	X					X			
	1457		SS20			020	X	X					X			
	1459		SS21			021	X	X					X			
	1500		SS22			022	X	X					X			
	1502		SS23			023	X	X					X			
	1504		SS24			024	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9-29-21	1203				9/29/21	1203
9/29/21	1826		One Courier	9130pm	0710	

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client:

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: MC com #160

Project #:

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 3

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109H25	BTEX / MTBE / TMB's (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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-28-21	1506	soil	SS25	(1)4oz	cool	025	X	X					X			
	1510		SS26			026	X	X					X			
	1511		SS27			027	X	X					X			
	1512		SS28			028	X	X					X			
	1514		SS29			029	X	X					X			
	1515		SS30			030	X	X					X			
	1517		SS31			031	X	X					X			
	1519		SS32			032	X	X					X			
↓	1520	↓	SS33	↓	↓	033	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9-28-21	1203				9/29/21	1203
9/29/21	1824			Courier	9/30/21	0710

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Heather Woods
Whiptail Midstream
1703 Calder St
Farmington, NM 87401
TEL: (505) 636-0745
FAX:

RE: MC Com 160

OrderNo.: 2308G05

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/30/2023 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-001 **Matrix:** SOIL

Client Sample ID: B-01@1-1.5'
Collection Date: 8/25/2023 9:23:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/5/2023 8:53:52 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/5/2023 8:53:52 PM
Surr: DNOP	76.7	69-147		%Rec	1	9/5/2023 8:53:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/5/2023 8:51:00 PM
Surr: BFB	97.5	15-244		%Rec	1	9/5/2023 8:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/5/2023 8:51:00 PM
Toluene	ND	0.047		mg/Kg	1	9/5/2023 8:51:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/5/2023 8:51:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/5/2023 8:51:00 PM
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	9/5/2023 8:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/5/2023 9:45:00 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-002 **Matrix:** SOIL

Client Sample ID: B-01@1.5-2'
Collection Date: 8/25/2023 9:25:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/5/2023 9:04:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2023 9:04:42 PM
Surr: DNOP	81.1	69-147		%Rec	1	9/5/2023 9:04:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2023 9:56:00 PM
Surr: BFB	105	15-244		%Rec	1	9/5/2023 9:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/5/2023 9:56:00 PM
Toluene	ND	0.048		mg/Kg	1	9/5/2023 9:56:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2023 9:56:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/5/2023 9:56:00 PM
Surr: 4-Bromofluorobenzene	91.1	39.1-146		%Rec	1	9/5/2023 9:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/5/2023 10:22:14 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-003 **Matrix:** SOIL

Client Sample ID: B-02@0-0.5'
Collection Date: 8/25/2023 9:32:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/5/2023 9:15:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/5/2023 9:15:33 PM
Surr: DNOP	82.8	69-147		%Rec	1	9/5/2023 9:15:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/5/2023 11:01:00 PM
Surr: BFB	99.7	15-244		%Rec	1	9/5/2023 11:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	9/5/2023 11:01:00 PM
Toluene	ND	0.047		mg/Kg	1	9/5/2023 11:01:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/5/2023 11:01:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	9/5/2023 11:01:00 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146		%Rec	1	9/5/2023 11:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/5/2023 11:24:18 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-004 **Matrix:** SOIL

Client Sample ID: B-02@1.5-2'
Collection Date: 8/25/2023 9:37:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/5/2023 9:26:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/5/2023 9:26:23 PM
Surr: DNOP	83.5	69-147		%Rec	1	9/5/2023 9:26:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2023 11:23:00 PM
Surr: BFB	98.4	15-244		%Rec	1	9/5/2023 11:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/5/2023 11:23:00 PM
Toluene	ND	0.048		mg/Kg	1	9/5/2023 11:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2023 11:23:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/5/2023 11:23:00 PM
Surr: 4-Bromofluorobenzene	89.2	39.1-146		%Rec	1	9/5/2023 11:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	61		mg/Kg	20	9/5/2023 11:36:42 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-005 **Matrix:** SOIL

Client Sample ID: B-03@0-0.5'
Collection Date: 8/25/2023 9:44:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/5/2023 9:37:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/5/2023 9:37:12 PM
Surr: DNOP	80.6	69-147		%Rec	1	9/5/2023 9:37:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2023 11:45:00 PM
Surr: BFB	98.3	15-244		%Rec	1	9/5/2023 11:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/5/2023 11:45:00 PM
Toluene	ND	0.048		mg/Kg	1	9/5/2023 11:45:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2023 11:45:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/5/2023 11:45:00 PM
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	9/5/2023 11:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/5/2023 11:49:07 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-006 **Matrix:** SOIL

Client Sample ID: B-03@1.5-2'
Collection Date: 8/25/2023 9:49:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/5/2023 9:48:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2023 9:48:06 PM
Surr: DNOP	81.7	69-147		%Rec	1	9/5/2023 9:48:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 12:06:00 AM
Surr: BFB	101	15-244		%Rec	1	9/6/2023 12:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 12:06:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 12:06:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 12:06:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	9/6/2023 12:06:00 AM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	9/6/2023 12:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:01:32 AM

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-007 **Matrix:** SOIL

Client Sample ID: B-04@0.5-1'
Collection Date: 8/25/2023 9:58:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/5/2023 9:58:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 9:58:56 PM
Surr: DNOP	79.6	69-147		%Rec	1	9/5/2023 9:58:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/6/2023 12:28:00 AM
Surr: BFB	100	15-244		%Rec	1	9/6/2023 12:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	9/6/2023 12:28:00 AM
Toluene	ND	0.050		mg/Kg	1	9/6/2023 12:28:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/6/2023 12:28:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/6/2023 12:28:00 AM
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	9/6/2023 12:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:13:56 AM

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-008 **Matrix:** SOIL

Client Sample ID: B-04@1.5-2'
Collection Date: 8/25/2023 10:02:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/5/2023 10:09:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 10:09:51 PM
Surr: DNOP	84.1	69-147		%Rec	1	9/5/2023 10:09:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 12:50:00 AM
Surr: BFB	96.0	15-244		%Rec	1	9/6/2023 12:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 12:50:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 12:50:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 12:50:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	9/6/2023 12:50:00 AM
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	9/6/2023 12:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	59		mg/Kg	20	9/6/2023 10:13:50 AM

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-009 **Matrix:** SOIL

Client Sample ID: B-05@0-0.5'
Collection Date: 8/25/2023 10:09:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/5/2023 10:20:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/5/2023 10:20:48 PM
Surr: DNOP	84.5	69-147		%Rec	1	9/5/2023 10:20:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 1:11:00 AM
Surr: BFB	100	15-244		%Rec	1	9/6/2023 1:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 1:11:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 1:11:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 1:11:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/6/2023 1:11:00 AM
Surr: 4-Bromofluorobenzene	88.9	39.1-146		%Rec	1	9/6/2023 1:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 10:51:03 AM

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-010 **Matrix:** SOIL

Client Sample ID: B-05@1.5-2'
Collection Date: 8/25/2023 10:14:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/5/2023 10:31:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2023 10:31:47 PM
Surr: DNOP	91.2	69-147		%Rec	1	9/5/2023 10:31:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/6/2023 1:33:00 AM
Surr: BFB	105	15-244		%Rec	1	9/6/2023 1:33:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 1:33:00 AM
Toluene	ND	0.049		mg/Kg	1	9/6/2023 1:33:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/6/2023 1:33:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/6/2023 1:33:00 AM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	9/6/2023 1:33:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	61	60		mg/Kg	20	9/6/2023 11:28:17 AM

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-011 **Matrix:** SOIL

Client Sample ID: B-06@0.5-1'
Collection Date: 8/25/2023 10:24:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/5/2023 10:53:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 10:53:30 PM
Surr: DNOP	82.1	69-147		%Rec	1	9/5/2023 10:53:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 2:16:00 AM
Surr: BFB	97.6	15-244		%Rec	1	9/6/2023 2:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 2:16:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 2:16:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 2:16:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	9/6/2023 2:16:00 AM
Surr: 4-Bromofluorobenzene	89.4	39.1-146		%Rec	1	9/6/2023 2:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	59		mg/Kg	20	9/6/2023 11:40:42 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-012 **Matrix:** SOIL

Client Sample ID: B-06@1.5-2'
Collection Date: 8/25/2023 10:28:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/5/2023 11:04:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 11:04:31 PM
Surr: DNOP	80.3	69-147		%Rec	1	9/5/2023 11:04:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/6/2023 2:38:00 AM
Surr: BFB	102	15-244		%Rec	1	9/6/2023 2:38:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	9/6/2023 2:38:00 AM
Toluene	ND	0.047		mg/Kg	1	9/6/2023 2:38:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	9/6/2023 2:38:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	9/6/2023 2:38:00 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146		%Rec	1	9/6/2023 2:38:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:17:55 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-013 **Matrix:** SOIL

Client Sample ID: B-07@0.5-1'
Collection Date: 8/25/2023 10:41:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/5/2023 11:15:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 11:15:31 PM
Surr: DNOP	81.4	69-147		%Rec	1	9/5/2023 11:15:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/6/2023 3:00:00 AM
Surr: BFB	101	15-244		%Rec	1	9/6/2023 3:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	9/6/2023 3:00:00 AM
Toluene	ND	0.050		mg/Kg	1	9/6/2023 3:00:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/6/2023 3:00:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/6/2023 3:00:00 AM
Surr: 4-Bromofluorobenzene	91.6	39.1-146		%Rec	1	9/6/2023 3:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:30:19 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2308G05**
Date Reported:

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-014 **Matrix:** SOIL

Client Sample ID: B-07@1.5-2'
Collection Date: 8/25/2023 10:45:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	9/5/2023 11:26:34 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/5/2023 11:26:34 PM
Surr: DNOP	80.4	69-147		%Rec	1	9/5/2023 11:26:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/6/2023 3:21:00 AM
Surr: BFB	96.1	15-244		%Rec	1	9/6/2023 3:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	9/6/2023 3:21:00 AM
Toluene	ND	0.050		mg/Kg	1	9/6/2023 3:21:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/6/2023 3:21:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/6/2023 3:21:00 AM
Surr: 4-Bromofluorobenzene	88.2	39.1-146		%Rec	1	9/6/2023 3:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:42:43 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-015 **Matrix:** SOIL

Client Sample ID: B-08@1-1.5'
Collection Date: 8/25/2023 10:58:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/5/2023 11:37:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/5/2023 11:37:46 PM
Surr: DNOP	81.2	69-147		%Rec	1	9/5/2023 11:37:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/6/2023 3:43:00 AM
Surr: BFB	102	15-244		%Rec	1	9/6/2023 3:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 3:43:00 AM
Toluene	ND	0.049		mg/Kg	1	9/6/2023 3:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/6/2023 3:43:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/6/2023 3:43:00 AM
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	9/6/2023 3:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 12:55:08 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-016 **Matrix:** SOIL

Client Sample ID: B-08@1.5-2'
Collection Date: 8/25/2023 11:00:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/5/2023 11:48:58 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/5/2023 11:48:58 PM
Surr: DNOP	80.6	69-147		%Rec	1	9/5/2023 11:48:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/6/2023 4:05:00 AM
Surr: BFB	103	15-244		%Rec	1	9/6/2023 4:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	9/6/2023 4:05:00 AM
Toluene	ND	0.050		mg/Kg	1	9/6/2023 4:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/6/2023 4:05:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/6/2023 4:05:00 AM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	9/6/2023 4:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 1:07:33 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-017 **Matrix:** SOIL

Client Sample ID: B-09@1-1.5'
Collection Date: 8/25/2023 11:18:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/6/2023 12:00:09 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2023 12:00:09 AM
Surr: DNOP	83.7	69-147		%Rec	1	9/6/2023 12:00:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/6/2023 4:27:00 AM
Surr: BFB	102	15-244		%Rec	1	9/6/2023 4:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	9/6/2023 4:27:00 AM
Toluene	ND	0.047		mg/Kg	1	9/6/2023 4:27:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	9/6/2023 4:27:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	9/6/2023 4:27:00 AM
Surr: 4-Bromofluorobenzene	91.6	39.1-146		%Rec	1	9/6/2023 4:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	61		mg/Kg	20	9/6/2023 1:19:57 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-018 **Matrix:** SOIL

Client Sample ID: B-09@1.5-2'
Collection Date: 8/25/2023 11:21:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/6/2023 12:11:15 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2023 12:11:15 AM
Surr: DNOP	78.4	69-147		%Rec	1	9/6/2023 12:11:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/6/2023 4:48:00 AM
Surr: BFB	98.7	15-244		%Rec	1	9/6/2023 4:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 4:48:00 AM
Toluene	ND	0.047		mg/Kg	1	9/6/2023 4:48:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	9/6/2023 4:48:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	9/6/2023 4:48:00 AM
Surr: 4-Bromofluorobenzene	89.9	39.1-146		%Rec	1	9/6/2023 4:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 1:32:22 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2308G05**
Date Reported:

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-019 **Matrix:** SOIL

Client Sample ID: B-10@1-1.5'
Collection Date: 8/25/2023 11:33:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/6/2023 12:22:21 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2023 12:22:21 AM
Surr: DNOP	78.8	69-147		%Rec	1	9/6/2023 12:22:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 5:10:00 AM
Surr: BFB	98.5	15-244		%Rec	1	9/6/2023 5:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 5:10:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 5:10:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 5:10:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/6/2023 5:10:00 AM
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	9/6/2023 5:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 1:44:47 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2308G05**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Whiptail Midstream
Project: MC Com 160
Lab ID: 2308G05-020 **Matrix:** SOIL

Client Sample ID: B-10@1.5-2'
Collection Date: 8/25/2023 11:37:00 AM
Received Date: 8/30/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/6/2023 12:33:26 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2023 12:33:26 AM
Surr: DNOP	91.0	69-147		%Rec	1	9/6/2023 12:33:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/6/2023 5:32:00 AM
Surr: BFB	98.4	15-244		%Rec	1	9/6/2023 5:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**
Benzene	ND	0.024		mg/Kg	1	9/6/2023 5:32:00 AM
Toluene	ND	0.048		mg/Kg	1	9/6/2023 5:32:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/6/2023 5:32:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	9/6/2023 5:32:00 AM
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	9/6/2023 5:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **SNS**
Chloride	ND	60		mg/Kg	20	9/6/2023 1:57:12 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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308G05**

11-Sep-23

Client: Whiptail Midstream

Project: MC Com 160

Sample ID: MB-77309	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 77309	RunNo: 99451
Prep Date: 9/5/2023	Analysis Date: 9/5/2023	SeqNo: 3631507 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77309	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 77309	RunNo: 99451
Prep Date: 9/5/2023	Analysis Date: 9/5/2023	SeqNo: 3631508 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308G05**

11-Sep-23

Client: Whiptail Midstream
Project: MC Com 160

Sample ID: **2308G05-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **B-01@1-1.5'** Batch ID: **77299** RunNo: **99448**
Prep Date: **9/5/2023** Analysis Date: **9/6/2023** SeqNo: **3631388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	49.90	0	94.1	54.2	135			
Surr: DNOP	3.6		4.990		73.1	69	147			

Sample ID: **2308G05-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **B-01@1-1.5'** Batch ID: **77299** RunNo: **99448**
Prep Date: **9/5/2023** Analysis Date: **9/6/2023** SeqNo: **3631389** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	48.92	0	92.0	54.2	135	4.24	29.2	
Surr: DNOP	3.7		4.892		75.7	69	147	0	0	

Sample ID: **LCS-77299** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **77299** RunNo: **99448**
Prep Date: **9/5/2023** Analysis Date: **9/5/2023** SeqNo: **3631438** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.3	61.9	130			
Surr: DNOP	4.3		5.000		86.2	69	147			

Sample ID: **MB-77299** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **77299** RunNo: **99448**
Prep Date: **9/5/2023** Analysis Date: **9/5/2023** SeqNo: **3631440** 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	9.0		10.00		90.0	69	147			

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308G05**

11-Sep-23

Client: Whiptail Midstream

Project: MC Com 160

Sample ID: lcs-77245	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630940 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.2	70	130			
Surr: BFB	2100		1000		208	15	244			

Sample ID: mb-77245	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630941 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	990		1000		99.0	15	244			

Sample ID: 2308G05-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: B-01@1-1.5'	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630943 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.58	0	91.0	70	130			
Surr: BFB	1900		943.4		202	15	244			

Sample ID: 2308G05-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: B-01@1-1.5'	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630944 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.67	0	85.3	70	130	6.07	20	
Surr: BFB	2000		947.0		207	15	244	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

WO#: **2308G05**

Hall Environmental Analysis Laboratory, Inc.

11-Sep-23

Client: Whiptail Midstream
Project: MC Com 160

Sample ID: lcs-77245	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630982 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	70	130			
Toluene	0.89	0.050	1.000	0	88.5	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.9	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	39.1	146			

Sample ID: mb-77245	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630983 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	0.88		1.000		88.2	39.1	146			

Sample ID: 2308G05-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles
Client ID: B-01@1.5-2'	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630986 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9625	0	85.2	70	130			
Toluene	0.83	0.048	0.9625	0	86.3	70	130			
Ethylbenzene	0.85	0.048	0.9625	0	88.0	70	130			
Xylenes, Total	2.5	0.096	2.887	0	87.8	70	130			
Surr: 4-Bromofluorobenzene	0.88		0.9625		91.0	39.1	146			

Sample ID: 2308G05-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles
Client ID: B-01@1.5-2'	Batch ID: 77245	RunNo: 99443
Prep Date: 8/31/2023	Analysis Date: 9/5/2023	SeqNo: 3630987 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9625	0	84.8	70	130	0.434	20	
Toluene	0.83	0.048	0.9625	0	86.2	70	130	0.162	20	
Ethylbenzene	0.85	0.048	0.9625	0	88.6	70	130	0.664	20	
Xylenes, Total	2.6	0.096	2.887	0	88.8	70	130	1.14	20	
Surr: 4-Bromofluorobenzene	0.89		0.9625		92.2	39.1	146	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Whiptail Midstream | Work Order Number: 2308G05 | RcptNo: 1

Received By: Tracy Casarrubias 8/30/2023 6:30:00 AM

Completed By: Tracy Casarrubias 8/30/2023 6:46:40 AM

Reviewed By: JA 8-30-23

Chain 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° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by: JA 8/30/23

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Whiptail Midstream

Mailing Address: 1703 Cedar Street

Farmington, NM 87401

Phone #: (505) 636-0574

email or Fax#: Heather.Woods@WhiptailMidstream.com

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Rush: 5-day TAT

☐ Standard ☒ Rush

Project Name: MC Com #160

Project #:

Project Manager: Heather Woods

Sampler: HW

On Ice: ☑ Yes ☐ No 409

# of Coolers: 1

Cooler Temp(including CF): 5.2-0=5.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308G05	BTEX / ~~MTBE / TMB's~~ (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, NO_3, NO_2, PO_4, SO_4 (300.0)	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/25/23	0923	Soil	B-01@1-1.5'	(1) 4oz Glass	Non	001	X	X					X			
8/25/23	0925	Soil	B-01@1.5-2'	(1) 4oz Glass	Non	002	X	X					X			
8/25/23	0932	Soil	B-02@0-0.5'	(1) 4oz Glass	Non	003	X	X					X			
8/25/23	0937	Soil	B-02@1.5-2'	(1) 4oz Glass	Non	004	X	X					X			
8/25/23	0944	Soil	B-03@0-0.5'	(1) 4oz Glass	Non	005	X	X					X			
8/25/23	0949	Soil	B-03@1.5-2'	(1) 4oz Glass	Non	006	X	X					X			
8/25/23	0958	Soil	B-04@0.5-1'	(1) 4oz Glass	Non	007	X	X					X			
8/25/23	1002	Soil	B-04@1.5-2'	(1) 4oz Glass	Non	008	X	X					X			
8/25/23	1009	Soil	B-05@0-0.5'	(1) 4oz Glass	Non	009	X	X					X			
8/25/23	1014	Soil	B-05@1.5-2'	(1) 4oz Glass	Non	010	X	X					X			
8/25/23	1024	Soil	B-06@0.5-1'	(1) 4oz Glass	Non	011	X	X					X			
8/25/23	1028	Soil	B-06@1.5-2'	(1) 4oz Glass	Non	012	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/29/23	1515	Heath M. Hs	Christ Waeta		8/29/23	1515
8/29/23	1747	Christ Waeta		Courier	8/30/23	6:30

Remarks: Page 1 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Whiptail Midstream

Mailing Address: 1703 Calder Street

Farmington, NM 87401

Phone #: (505) 636-0574

email or Fax#: Heather.Woods@WhiptailMidstream.com

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Rush: 5-day TAT

☐ Standard ☑ Rush

Project Name: MC Com #160

Project #:

Project Manager: Heather Woods

Sampler: HW

On Ice: ☑ Yes ☐ No 4091

# of Coolers: 1

Cooler Temp(including CF): 5.2-0=5.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2308605	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	300.0: Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/25/23	1041	Soil	B-07@0.5-1'	(1) 4oz Glass	Non	013	X	X					X			
8/25/23	1045	Soil	B-07@1.5-2'	(1) 4oz Glass	Non	014	X	X					X			
8/25/23	1058	Soil	B-08@1-1.5'	(1) 4oz Glass	Non	015	X	X					X			
8/25/23	1100	Soil	B-08@1.5-2'	(1) 4oz Glass	Non	016	X	X					X			
8/25/23	1118	Soil	B-09@1-1.5'	(1) 4oz Glass	Non	017	X	X					X			
8/25/23	1121	Soil	B-09@1.5-2'	(1) 4oz Glass	Non	018	X	X					X			
8/25/23	1133	Soil	B-10@1-1.5'	(1) 4oz Glass	Non	019	X	X					X			
8/25/23	1137	Soil	B-10@1.5-2'	(1) 4oz Glass	Non	020	X	X					X			

Date: 8/29/23 Time: 1515 Relinquished by: Heather

Received by: Christen Walters Via: Date 8/29/23 Time 1515

Date: 8/29/23 Time: 1747 Relinquished by:

Received by: Via: carrier Date 8/30/23 Time 6:30

Remarks: Page 2 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 264084

CONDITIONS

Operator:	OGRID:
Whiptail Midstream LLC 15 West 6th Street Tulsa, OK 74119	373240
	Action Number: 264084
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been decommissioned.	10/20/2023