

EA Engineering, Science, and Technology, Inc., PBC 320 Gold Avenue SW, Suite 1300 Albuquerque, New Mexico 87102 Phone: (505) 224-9013

December 2, 2021

Mr. Cory Smith Environmental Bureau EMNRD - Oil Conservation Division 5200 Oakland Avenue NE, Suite 100 Albuquerque, New Mexico 87113

RE: Surface Soil and Fluid/Aqueous Sample Collection on the Appling Property and Adjacent Properties to the South of Highway US 62/180 Carlsbad, New Mexico

Dear Mr. Smith:

EA Engineering, Science, and Technology, Inc., PBC (EA) is pleased to submit this letter report documenting surface soil and fluid/aqueous sampling conducted on the Appling property and adjacent properties to the south of Highway US 62/180 (the highway). The field activities documented herein were performed on November 10, 2021 and were conducted under EA's price agreement # 10-52100-21-06041 and the work plan submitted to the Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) on November 5, 2021. A purchase order to complete the scope of work was issued to EA by OCD on November 8, 2021.

Background Information

On the evening of October 29, 2021, a 10,000+ barrel tank located on the property of Thomas Appling, 2410 East Greene Street (US 62/180), Carlsbad, New Mexico, failed catastrophically. The water from the release reportedly toppled two downgradient waste tanks, overflowed a lined pit, and then flowed across the Appling property to the southeast. The release flowed through a culvert beneath Highway US 62/180 and onto several properties south of the highway. Photos taken after the release by Mr. Chad Hensley of the OCD show an extensive area of impact on the Appling property on the north side of the highway and on several properties south of the highway, including the Sands RV Park and a private residence.

Project Planning Activities

Prior to mobilizing to the site, EA completed the following project planning and premobilization tasks:

- Prepared a site-specific Health and Safety Plan in accordance with the requirements of 40 CFR 1910.120 to cover the proposed project activities;
- Contacted the owner of the Sands RV Park, Mr. Scott Goodale, to coordinate site access and sampling on the south side of the highway;
- Coordinated with Mr. Chad Hensley of the OCD Artesia office to access the Appling

Property on the north side of the highway; and

• Ordered and picked up sample kits for the soil and fluid/aqueous samples from Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Field Activities

EA arrived at the site on the morning of November 10, 2021. Mr. Hensley (OCD) and Mr. Michel Garner (onsite representative for Mr. Scott Goodale and owner of the home located on the west side of the RV Park) met EA at the Sands RV Park, located on the south side of the highway. Mr. Hensley coordinated with the Sheriff's Department to remove Mr. Appling and others from the property on the north side of the highway so that EA could complete sampling activities on the property without potential interference.

Extent of Release Mapping

The release on the north side of the highway on the Appling property was not mapped by EA at the request of Mr. Hensley due to the situation with removing Mr. Appling from the property. Mr. Hensley requested that EA complete sampling on the property as quickly as possible. Sample locations are shown on Figure 1 and were collected within areas of visual staining (indicating the path of the release). The exception to this is sample BG-1 which was collected as a background sample (Figure 1). High resolution drone footage of the release on the north side of the highway was obtained by the City of Carlsbad Fire Department and provided to Mr. Hensley.

EA mapped the extent of the release on the south side of the highway based on visual petroleum hydrocarbon and chloride surface staining. EA was accompanied by Mr. Garner, who was present in his home on the night the release occurred and observed the release firsthand. The approximate extent of the release on the south side of highway US 62/180 is shown on Figure 1. Photographic documentation of the impacts of the release on the north and south sides of the highway is provided in Attachment 1.

Surface Soil and Fluid/Aqueous Sampling

EA collected a total of 15 grab surface soil and 2 grab fluid/aqueous samples from select locations within the extent of the release area on the Appling property, and from impacted properties on the south side of the highway. The fluid/aqueous samples were collected from locations where ponded oil (sample location SS-5a) and water (sample location SS-7a) were present on the ground surface (Figure 1). The fluid sample of ponded oil was collected downgradient of the lined pond and waste tanks. The aqueous sample of ponded water was collected east-southeast of the ruptured water tank. In addition to the above samples, 2 background soil samples were collected from locations outside of the release area. Sampling locations are shown on Figure 1.

The samples were collected with a decontaminated spade from approximately 3 to 6 inches below ground surface (bgs) and placed into laboratory-provided sample containers, labeled, and placed on ice in a cooler pending delivery to the analytical laboratory. Disposable gloves were worn and replaced between samples. Sampling equipment were decontaminated prior to use and between samples using a laboratory-grade detergent and fresh tap water rinse.

The samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for the following analyses:

- U.S. Environmental Protection Agency (EPA) Method 8021 for benzene, toluene, ethylbenzene, and total xylenes (BTEX);
- EPA Method 8015 for TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO);
- EPA Method 6010/7471 for select metals including arsenic, barium, cadmium, lead, and mercury; and
- EPA Method 300.0 for chloride.

Analytical Results

Chloride and select metals analytical results are summarized in Table 1. Analytical results of BTEX and TPH GRO/DRO/MRO are summarized in Table 2. Sampling locations are shown on Figure 1. The complete laboratory analytical report is included in Attachment 2. A brief summary of the results is presented below.

<u>Chloride</u>

- Chloride was detected in all of the 15 surface soil samples collected. The chloride concentrations in these samples ranged from 110 milligrams per Kilogram (mg/Kg) at sample location SS-4 to 27,000 mg/Kg at sample location SS-14.
- The two fluid/aqueous samples showed chloride concentrations of 78 mg/Kg (SS-5a; ponded oil sample) and 1,600 milligrams per liter (mg/L) (SS-7a; ponded water sample).
- The two background soil samples collected from locations outside of the release area showed vastly different chloride concentrations; the sample collected north of the Appling property was <60 mg/Kg (BG-1) and the sample collected approximately 600 feet east of SS-13 was 12,000 mg/Kg (BG-2).

Select Metals

The following metals were detected in surface soil samples:

- Barium was detected in all of the samples at concentrations ranging from 59 mg/Kg at sample location SS-8 to 1,500 mg/Kg at sample location SS-3.
- Cadmium was detected only at sample location SS-16 at a concentration of 1.4 mg/Kg.
- Lead was detected in 9 of the 15 samples at concentrations ranging from 1.0 mg/Kg at sample location SS-10 to 33 mg/Kg at sample location SS-2.
- Arsenic and mercury were not detected in any of the samples at concentrations above the laboratory reporting limits.

The following metals were detected in the fluid/aqueous samples:

• SS-5a (ponded oil sample) – arsenic (4 mg/Kg), barium (21 mg/Kg), and lead (2 mg/Kg).

Cadmium and mercury were not detected at concentrations above the laboratory reporting limits.

• SS-7a (ponded water sample) – barium (0.47 mg/L) and lead (0.026 mg/L). Arsenic, cadmium, and mercury were not detected at concentrations above the laboratory reporting limits.

The following metals were detected in the background samples:

- BG-1 barium (75 mg/Kg) and lead (1.5 mg/Kg). Arsenic, cadmium, and mercury were not detected at concentrations above the laboratory reporting limits.
- BG-2 barium (91 mg/Kg) and lead (2.5 mg/Kg). Arsenic, cadmium, and mercury were not detected at concentrations above the laboratory reporting limits.

<u>BTEX</u>

BTEX constituents were detected in the following surface soil samples:

- Toluene was detected only at sample location SS-2 at a concentration of 0.13 mg/Kg.
- Ethylbenzene was detected in 2 of 15 samples at concentrations of 0.40 mg/Kg at sample location SS-2 and 0.064 mg/Kg at sample location SS-6.
- Total xylenes were detected in 2 of 15 samples at concentrations of 1.8 mg/Kg at sample location SS-2 and 0.35 mg/Kg at sample location SS-6.
- Benzene was not detected in any of the samples at concentrations above the laboratory reporting limit.

BTEX constituents were detected in the following fluid/aqueous samples:

- SS-5a (ponded oil sample) benzene (3.6 mg/Kg), toluene (26 mg/Kg), ethylbenzene (54 mg/Kg), and total xylenes (290 mg/Kg).
- SS-7a (ponded water sample) no BTEX constituents were detected above laboratory reporting limits.

BTEX constituents were not detected in either of the background soil samples at concentrations above laboratory reporting limits.

TPH GRO/DRO/MRO

GRO/DRO/MRO were detected in the following surface soil samples:

- GRO was detected in 4 of 15 samples at concentrations ranging from 11 mg/Kg at sample location SS-9 to 58 mg/Kg at sample location SS-2.
- DRO was detected in 13 of 15 samples at concentrations ranging from 43 mg/Kg at sample location SS-4 to 15,000 mg/Kg at sample location SS-5.
- MRO was detected in 12 of 15 samples at concentrations ranging from 65 mg/Kg at sample location SS-3 to 8,100 mg/Kg at sample location SS-5.

GRO/DRO/MRO were detected in the following fluid/aqueous samples:

- SS-5a (ponded oil sample) GRO (<4.8 mg/Kg), DRO (440,000 mg/Kg), MRO (280,000 mg/Kg).
- SS-7a (ponded water sample) BTEX and GRO/DRO/MRO were not detected above laboratory reporting limits.

BTEX and GRO/DRO/MRO were not detected in either of the background soil samples at concentrations above laboratory reporting limits.

Conclusions

Based on field mapping and sampling activities, EA offers the following conclusions:

- Laboratory analytical results from grab surface soil samples indicate TPH impacts extend approximately 1,700 feet to the southeast (sample location SS-13) from the culvert on the south side of the highway where DRO and MRO analytical results were 1,400 mg/Kg and 1,000 mg/Kg, and approximately 1,400 feet to the south-southeast of the Garner residence (sample location SS-11) where DRO and MRO analytical results were 2,100 mg/Kg and 2,100 mg/Kg.
- Laboratory analytical results from grab surface soil samples indicate chloride impacts extend approximately 1,700 feet to the southeast (sample location SS-13) from the culvert on the south side of the highway where chloride was detected at a concentration of 4,200 mg/Kg, and approximately 1,400 feet to the south-southeast of the Garner residence (sample location SS-11) where chloride was detected at a concentration of 20,000 mg/Kg.
- Visual chloride impacts (salt crusted surface) are observable over a larger area as shown on Figure 1, particularly in the eastern portion of the Sands RV Park and to the south-southeast of the Garner residence.
- Depth to potable water in the vicinity of the site is between 50 and 100 feet bgs. Depth to water in USGS well 322712104074501 21S.28E.30.14123 MNY, located approximately 1.5 miles east-northeast of the site, was 87.41 ft bgs in November 2021. The well is completed to a depth of 906 feet in the Capitan Limestone.
- Shallower groundwater is present beneath the site according to Mr. Garner, but it is not potable. Local residences and businesses in the area of the release are hooked up to Carlsbad city water.

Recommendations

Based on 19.15.29.12. C.(2), the impacted surface area of a release shall be restored to meet the standards of Table 1 of 19.15.29.12 NMAC. Analytical results from surface soil samples collected at a number of locations on the north and south sides of the highway exceeded the OCD standards for groundwater (<10,000 mg/L TDS) between 51 feet 100 feet bgs (Tables 1 and 2). These included the following:

- Chloride (10,000 mg/Kg):
 - SS-11 (20,000 mg/Kg), SS-14 (27,000 mg/Kg), SS-16 (10,000 mg/Kg), and BG-2 (12,000 mg/Kg)
- TPH (GRO+DRO+MRO) (2,500 mg/Kg):
 - SS-2 (3,158 mg/Kg), SS-5 (23,127 mg/Kg), SS-6 (17,732 mg/Kg), SS-10 (6,300 mg/Kg), SS-11 (4,200 mg/Kg), SS-14 (6,500 mg/Kg), SS-15 (5,100 mg/Kg), and SS-16 (13,900 mg/Kg)

EA recommends that these areas be restored to meet the OCD standards. Because the chloride concentrations in the two background samples varied so dramatically, with BG-2 exceeding the standard at 12,000 mg/Kg, it is recommended that additional background samples be collected to determine a representative background concentration for chloride before restoration of these areas is completed.

In areas where standards were not exceeded, EA recommends that visual impacts resulting from the release on the south side of the highway be removed, particularly the petroleum hydrocarbon residue and staining, on the Sands RV Park properties and the private residence of Mr. Garner.

EA intends to invoice a reduced amount of \$17,592.40 (including New Mexico Gross Receipts Tax). EA did not require use of the contingency. If you have any questions or need additional information, please feel free to contact me at (505) 235-9037.

Sincerely,

EA Engineering, Science, and Technology, Inc., PBC

2: D. C

Michael D. McVey, P.G., C.P.G. Senior Hydrogeologist

Attachments: Figure 1 – Site Map Table 1 – Surface Soil Sample Analytical Results, Chloride and Select Metals Table 2 – Surface Soil Sample Analytical Results, BTEX and TPH Attachment 1 – Photographic Documentation Attachment 2 – Analytical Laboratory Report

FIGURE





Document Path: C:\Users\ecarpio\Desktop\WORKING PROJECT FILES\6375601_APPLING_CALSBAD_NM\MXD\01_SITE_MAP.mxd

TABLES

TABLE 1. SURFACE SOIL SAMPLE ANALYTICAL RESULTS CHLORIDE AND SELECT METALS APPLING PROPERTY, CARLSBAD, NEW MEXICO

Sample ID	Date Sampled	Chloride (mg/Kg)	Arsenic (mg/Kg)	Baruim (mg/Kg)	Cadmium (mg/Kg)	Lead (mg/Kg)	Mercury (mg/Kg)
BG-1	10-Nov-21	<60	<4.8	75	< 0.097	1.5	< 0.033
BG-2	10-Nov-21	12,000	<4.8	91	< 0.097	2.5	< 0.033
SS-1	10-Nov-21	170	<4.9	390	< 0.098	<0.98	< 0.034
SS-2	10-Nov-21	660	<4.9	260	< 0.098	33	< 0.033
SS-3	10-Nov-21	900	<4.9	1,500	< 0.099	5.1	< 0.033
SS-4	10-Nov-21	110	<5.0	230	< 0.099	2.4	< 0.033
SS-5	10-Nov-21	200	<4.9	110	< 0.099	2.9	< 0.033
SS-5a (Oil)	10-Nov-21	78	4	21	<1.0	2	< 0.1
SS-6	10-Nov-21	120	<4.8	73	< 0.097	< 0.97	< 0.033
SS-7a (Water) ¹	10-Nov-21	1,600	< 0.030	0.47	< 0.0020	0.026	< 0.00020
SS-8	10-Nov-21	200	<4.9	59	< 0.099	1.3	< 0.033
SS-9	10-Nov-21	280	<5.0	120	< 0.10	4.3	< 0.033
SS-10	10-Nov-21	2,200	<4.8	75	< 0.095	1.0	< 0.033
SS-11	10-Nov-21	20,000	<4.9	62	< 0.098	< 0.98	< 0.033
SS-12	10-Nov-21	390	<4.8	280	< 0.097	< 0.97	< 0.033
SS-13	10-Nov-21	4,200	<4.9	100	< 0.098	< 0.98	< 0.033
SS-14	10-Nov-21	27,000	<5.0	160	< 0.10	<1.0	< 0.033
SS-15	10-Nov-21	4,300	<4.9	78	< 0.097	1.8	< 0.034
SS-16	10-Nov-21	10,000	<4.9	110	1.4	3.5	< 0.033
OCD Sstan	dard ²	10,000					

Notes:

Highlighted indicates concentration above the applicable OCD standard.

Chloride analyzed in accordance with EPA Method 300.0.

Metals analyzed in accordance with EPA Method 6010/7471.

"a" after sample number indicates fluid/aqueous sample.

¹ Analytical results reported in milligrams per liter (mg/L).

² OCD standard, 19.15.29.12 NMAC, Table 1 - depth to groundwater 51-100 feet bgs.

mg/Kg = Milligrams per Kilogram

BG = Background soil sample (3-6" bgs)

SS = Surface soil sample (3-6" bgs)

TABLE 2. SURFACE SOIL SAMPLE ANALYTICAL RESULTSBTEX AND TOTAL PETROLEUM HYDROCARBONSAPPLING PROPERTY, CARLSBAD, NEW MEXICO

Sample ID	Date Sampled	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl- benzene (mg/Kg)	Total Xylenes (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	
BG-1	10-Nov-21	< 0.023	< 0.046	< 0.046	< 0.093	<4.6	<9.9	<49	
BG-2	10-Nov-21	< 0.025	< 0.050	< 0.050	<0.099	<5.0	<9.6	<48	
SS-1	10-Nov-21	< 0.023	< 0.046	< 0.046	< 0.093	<4.6	<9.6	<48	
SS-2	10-Nov-21	< 0.025	0.13	0.40	1.8	58	1,100	2,000	
SS-3	10-Nov-21	< 0.025	< 0.050	< 0.050	< 0.10	<5.0	74	65	
SS-4	10-Nov-21	< 0.025	< 0.050	< 0.050	<0.099	<5.0	43	<47	
SS-5	10-Nov-21	< 0.023	< 0.047	< 0.047	< 0.093	27	15,000	8,100	
SS-5a (Oil)	10-Nov-21	3.6	26	54	290	<4.8	440,000	280,000	
SS-6	10-Nov-21	< 0.024	< 0.047	0.064	0.35	32	11,000	6,700	
SS-7a (Water) ¹	10-Nov-21	<1.0	<1.0	<1.0	<1.0	< 0.05	<1.0	<5.0	
SS-8	10-Nov-21	< 0.024	< 0.049	< 0.049	< 0.097	<4.9	400	530	
SS-9	10-Nov-21	< 0.024	< 0.048	< 0.048	< 0.097	11	450	300	
SS-10	10-Nov-21	< 0.024	< 0.048	< 0.048	< 0.096	<4.8	3,800	2,500	
SS-11	10-Nov-21	< 0.024	< 0.048	< 0.048	< 0.096	<4.8	2,100	2,100	
SS-12	10-Nov-21	< 0.023	< 0.046	< 0.046	< 0.093	<4.6	<8.9	<44	
SS-13	10-Nov-21	< 0.025	< 0.049	< 0.049	< 0.099	<4.9	1,400	1,000	
SS-14	10-Nov-21	< 0.025	< 0.050	< 0.050	< 0.10	<5.0	3,700	2,800	
SS-15	10-Nov-21	< 0.025	< 0.050	< 0.050	< 0.10	<5.0	2,800	2,300	
SS-16	10-Nov-21	< 0.025	< 0.050	< 0.050	< 0.099	<5.0	8,000	5,900	
OCD Sstar	ndard ²		10 ³ ,	50 ⁴		2,500 ⁵			

Notes:

Highlighted indicates concentration above the applicable OCD standard.

BTEX analyzed in accordance with EPA Method 8021.

Total Petroleum Hydrocarbons (TPH) analyzed in accordance with EPA Method 8015.

"a" after sample number indicates fluid/aqueous sample.

Analytical results for BTEX are reported in micrograms per liter (μ g/L).

² OCD standard, 19.15.29.12 NMAC, Table 1 - depth to groundwater 51-100 feet bgs.

OCD standard for benzene

⁴ OCD standard for BTEX

⁵ OCD standard for TPH (GRO+DRO+MRO)

GRO = Gasoline range organics

DRO = Diesel range organics

MRO = Motor oil range organics

mg/Kg = Milligrams per Kilogram

BG = Background soil sample (3-6" bgs)

SS = Surface soil sample (3-6" bgs)

ATTACHMENT 1 PHOTOGRAPHIC DOCUMENTATION



Photograph 1. Lined pond on Appling property (view to the west).



Photograph 2. Release on Appling property, west flow channel (view to the southwest).



Photograph 3. Release on Appling property, west flow channel (view to the west).



Photograph 4. Release on Appling property, east flow channel (view to the west).



Photograph 5. Release on Appling property, east flow channel (view to the east).



Photograph 6. Appling soil removal in east flow channel (view to the south).



Photograph 7. Culvert on south side of US 62/180 (view to the south).



Photograph 8. Collecting surface soil sample SS-8 at southern culvert.



Photograph 9. Ponded area along southern fence line of property north of Garner residence (view to the southeast).



Photograph 10. Staining on south fence approximately 18 inches high (view to the south).



Photograph 11. Soil staining in the Sands RV Park (view to the east).



Photograph 12. Soil staining and chloride surface crust in the Sands RV Park (view to the east).



Photograph 13. Soil staining in Sands RV Park (view to the southeast).

ATTACHMENT 2 ANALYTICAL LABORATORY REPORT



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

November 29, 2021

Mike McVey EA Engineering 320 Gold Ave SW Suite 1210 Albuquerque, NM 87102 TEL: (505) 224-9013 FAX:

RE: NMOCD

OrderNo.: 2111603

Dear Mike McVey:

Hall Environmental Analysis Laboratory received 20 sample(s) on 11/11/2021 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering		Cl	ient Sample II): B(G-1	
Project: NMOCD		(Collection Dat	e: 11	/10/2021 10:54:00 AN	1
Lab ID: 2111603-001	Matrix: SOIL		Received Dat	e: 11	/11/2021 11:40:00 AM	1
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LRN
Chloride	ND	60	mg/Kg	20	11/15/2021 3:28:37 PM	1 63931
EPA METHOD 7471B: MERCURY					Analys	t: VP
Mercury	ND	0.033	mg/Kg	1	11/17/2021 3:57:22 PM	1 63999
EPA METHOD 6010B: SOIL METALS					Analys	t: JLF
Arsenic	ND	4.8	mg/Kg	1	11/17/2021 7:04:32 PM	1 63898
Barium	75	0.097	mg/Kg	1	11/17/2021 7:04:32 PM	1 63898
Cadmium	ND	0.097	mg/Kg	1	11/17/2021 7:04:32 PM	1 63898
Lead	1.5	0.97	mg/Kg	1	11/17/2021 7:04:32 PM	1 63898
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/16/2021 12:01:23 P	M 63901
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/16/2021 12:01:23 P	M 63901
Surr: DNOP	94.6	70-130	%Rec	1	11/16/2021 12:01:23 P	M 63901
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/12/2021 11:11:00 A	M 63886
Surr: BFB	98.1	70-130	%Rec	1	11/12/2021 11:11:00 A	M 63886
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.023	mg/Kg	1	11/12/2021 11:11:00 A	M 63886
Toluene	ND	0.046	mg/Kg	1	11/12/2021 11:11:00 A	M 63886
Ethylbenzene	ND	0.046	mg/Kg	1	11/12/2021 11:11:00 A	M 63886
Xylenes, Total	ND	0.093	mg/Kg	1	11/12/2021 11:11:00 A	M 63886
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	11/12/2021 11:11:00 A	M 63886

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
- Н 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 interference
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р

RL Reporting Limit

Page 1 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT:	EA Engineering		Cl	ient Sample II	D: SS	5-1	
Project:	NMOCD			Collection Dat	e: 11	/10/2021 11:07:00 AN	1
Lab ID:	2111603-002	Matrix: SOIL		Received Dat	e: 11	/11/2021 11:40:00 AN	1
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: LRN
Chloride		170	60	mg/Kg	20	11/15/2021	63947
EPA ME	THOD 7471B: MERCURY					Analys	t: VP
Mercury		ND	0.034	mg/Kg	1	11/17/2021 4:03:52 PM	1 63999
EPA ME	THOD 6010B: SOIL METALS					Analys	t: JLF
Arsenic		ND	4.9	ma/Ka	1	11/17/2021 7:06:45 PM	1 63898
Barium		390	0.20	mg/Kg	2	11/18/2021 7:03:12 PM	1 63898
Cadmiu	m	ND	0.098	mg/Kg	1	11/17/2021 7:06:45 PN	1 63898
Lead		ND	0.98	mg/Kg	1	11/17/2021 7:06:45 PM	1 63898
EPA ME	THOD 8015M/D: DIESEL RANGE	EORGANICS				Analys	t: SB
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	11/16/2021 1:13:33 PM	/ 63901
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	11/16/2021 1:13:33 PN	/ 63901
Surr:	DNOP	102	70-130	%Rec	1	11/16/2021 1:13:33 PM	/ 63901
EPA ME	THOD 8015D: GASOLINE RANG	E				Analys	t: CCM
Gasoline	e Range Organics (GRO)	ND	4.6	mg/Kg	1	11/12/2021 12:10:00 P	M 63886
Surr:	BFB	94.0	70-130	%Rec	1	11/12/2021 12:10:00 F	M 63886
EPA ME	THOD 8021B: VOLATILES					Analys	t: CCM
Benzene	e	ND	0.023	mg/Kg	1	11/12/2021 12:10:00 P	M 63886
Toluene		ND	0.046	mg/Kg	1	11/12/2021 12:10:00 P	M 63886
Ethylber	nzene	ND	0.046	mg/Kg	1	11/12/2021 12:10:00 F	M 63886
Xylenes	, Total	ND	0.093	mg/Kg	1	11/12/2021 12:10:00 F	M 63886
Surr:	4-Bromofluorobenzene	103	70-130	%Rec	1	11/12/2021 12:10:00 P	M 63886

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 37

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

nlo ID: SS 2

CLIENT: EA Engineering **Client Sample ID: SS-2 Project:** NMOCD Collection Date: 11/10/2021 11:20:00 AM Lab ID: 2111603-003 Matrix: SOIL Received Date: 11/11/2021 11:40:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses Analyst: LRN **EPA METHOD 300.0: ANIONS** Chloride 660 60 mg/Kg 20 11/15/2021 63947 **EPA METHOD 7471B: MERCURY** Analyst: VP Mercury ND 0.033 mg/Kg 1 11/17/2021 4:06:02 PM 63999 **EPA METHOD 6010B: SOIL METALS** Analyst: JLF Arsenic ND 4.9 mg/Kg 11/17/2021 7:09:02 PM 63898 1 Barium 260 0.20 mg/Kg 2 11/18/2021 7:05:18 PM 63898 Cadmium ND 0.098 11/17/2021 7:09:02 PM 63898 mg/Kg 1 Lead 33 0.98 mg/Kg 11/17/2021 7:09:02 PM 63898 1 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** 1100 360 11/17/2021 7:54:25 PM 63901 mg/Kg 40 Motor Oil Range Organics (MRO) 2000 1800 mg/Kg 40 11/17/2021 7:54:25 PM 63901 Surr: DNOP 0 70-130 S %Rec 40 11/17/2021 7:54:25 PM 63901 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) 58 5.0 mg/Kg 1 11/15/2021 6:31:00 PM 63886 Surr: BFB 251 70-130 S %Rec 11/15/2021 6:31:00 PM 63886 1 **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene 11/15/2021 6:31:00 PM 63886 ND 0.025 mg/Kg 1 Toluene 0.13 0.050 mg/Kg 11/15/2021 6:31:00 PM 63886 1 Ethylbenzene 0.40 0.050 mg/Kg 11/15/2021 6:31:00 PM 63886 1

1.8

179

0.099

70-130

S

mg/Kg

%Rec

1

1

11/15/2021 6:31:00 PM 63886

11/15/2021 6:31:00 PM 63886

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

Xylenes, Total

Surr: 4-Bromofluorobenzene

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

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

Page 3 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering		Cl	ient Sample II	D: SS	5-4					
Project: NMOCD		Collection Date: 11/10/2021 11:32:00 AM								
Lab ID: 2111603-004	Matrix: SOIL		Received Dat	e: 11	/11/2021 11:40:00 AM	Л				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: LRN				
Chloride	110	60	mg/Kg	20	11/15/2021	63947				
EPA METHOD 7471B: MERCURY					Analys	t: VP				
Mercury	ND	0.033	mg/Kg	1	11/17/2021 4:08:11 PM	A 63999				
EPA METHOD 6010B: SOIL META	ALS				Analys	t: JLF				
Arsenic	ND	5.0	mg/Kg	1	11/17/2021 7:11:15 PM	A 63898				
Barium	230	0.099	mg/Kg	1	11/17/2021 7:11:15 PM	/ 63898				
Cadmium	ND	0.099	mg/Kg	1	11/17/2021 7:11:15 PM	/ 63898				
Lead	2.4	0.99	mg/Kg	1	11/17/2021 7:11:15 PM	/ 63898				
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analys	t: SB				
Diesel Range Organics (DRO)	43	9.4	mg/Kg	1	11/17/2021 4:51:43 PM	/ 63901				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/17/2021 4:51:43 PM	/ 63901				
Surr: DNOP	88.2	70-130	%Rec	1	11/17/2021 4:51:43 PM	A 63901				
EPA METHOD 8015D: GASOLINE	RANGE				Analys	t: CCM				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/12/2021 7:40:00 PM	A 63886				
Surr: BFB	102	70-130	%Rec	1	11/12/2021 7:40:00 PM	A 63886				
EPA METHOD 8021B: VOLATILE	S				Analys	t: CCM				
Benzene	ND	0.025	mg/Kg	1	11/12/2021 7:40:00 PM	A 63886				
Toluene	ND	0.050	mg/Kg	1	11/12/2021 7:40:00 PM	/ 63886				
Ethylbenzene	ND	0.050	mg/Kg	1	11/12/2021 7:40:00 PM	A 63886				
Xylenes, Total	ND	0.099	mg/Kg	1	11/12/2021 7:40:00 PM	A 63886				
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	11/12/2021 7:40:00 PM	A 63886				

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 interference
- 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

Page 4 of 37

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	EA Engineering	Client Sample ID: SS-3									
Project:	NMOCD		(Collection Date	e: 11,	/10/2021 11:45:00 AN	1				
Lab ID:	2111603-005	Matrix: SOIL	/11/2021 11:40:00 AM	1							
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 300.0: ANIONS					Analys	t: LRN				
Chloride		900	60	mg/Kg	20	11/15/2021	63947				
	THOD 7471B: MERCURY					Analys	t: VP				
Mercury		ND	0.033	mg/Kg	1	11/17/2021 4:10:20 PM	1 63999				
EPA ME	THOD 6010B: SOIL METALS					Analys	t: JLF				
Arsenic		ND	4.9	ma/Ka	1	11/17/2021 7:27:53 PM	1 63898				
Barium		1500	0.99	mg/Kg	10	11/18/2021 7:31:34 PM	1 63898				
Cadmiur	n	ND	0.099	mg/Kg	1	11/17/2021 7:27:53 PM	1 63898				
Lead		5.1	0.99	mg/Kg	1	11/17/2021 7:27:53 PM	1 63898				
	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB				
Diesel R	ange Organics (DRO)	74	9.7	mg/Kg	1	11/17/2021 5:04:27 PM	1 63901				
Motor O	il Range Organics (MRO)	65	49	mg/Kg	1	11/17/2021 5:04:27 PM	1 63901				
Surr:	DNOP	89.4	70-130	%Rec	1	11/17/2021 5:04:27 PM	1 63901				
	THOD 8015D: GASOLINE RANGE					Analys	t: CCM				
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	11/12/2021 8:00:00 PM	1 63886				
Surr:	BFB	106	70-130	%Rec	1	11/12/2021 8:00:00 PM	1 63886				
	THOD 8021B: VOLATILES					Analys	t: CCM				
Benzene	9	ND	0.025	mg/Kg	1	11/12/2021 8:00:00 PM	1 63886				
Toluene		ND	0.050	mg/Kg	1	11/12/2021 8:00:00 PM	1 63886				
Ethylber	nzene	ND	0.050	mg/Kg	1	11/12/2021 8:00:00 PM	1 63886				
Xylenes,	, Total	ND	0.10	mg/Kg	1	11/12/2021 8:00:00 PM	1 63886				
Surr: 4	4-Bromofluorobenzene	99.7	70-130	%Rec	1	11/12/2021 8:00:00 PM	1 63886				

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

NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

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

Page 5 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: Project:	EA Engineering NMOCD	Client Sample ID: SS-5A Collection Date: 11/10/2021 12:03:00 PM								
Lab ID:	2111603-006	Matrix: OIL	Matrix: OIL Received Date: 11/11/2021 11:40:00 AM							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch		
DRO BY	8015D						Analyst:	SB		
Diesel Ra	ange Organics (DRO)	44	1.1		wt%	20	11/16/2021 8:14:22 PM	63939		
Motor Oil	Range Organics (MRO)	28	5.7		wt%	20	11/16/2021 8:14:22 PM	63939		
Surr: E	DNOP	0	64.9-131	S	%Rec	20	11/16/2021 8:14:22 PM	63939		
GRO BY	8015D						Analyst:	mb		
Gasoline	Range Organics (GRO)	ND	4.8		wt%	1	11/17/2021 9:21:00 AM	63972		
Surr: E	3FB	106	58.9-156		%Rec	1	11/17/2021 9:21:00 AM	63972		
EPA MET	HOD 8021B: VOLATILES						Analyst:	mb		
Benzene		3.6	2.4		mg/Kg	1	11/17/2021 11:39:00 AM	1 63972		
Toluene		26	2.4		mg/Kg	1	11/17/2021 11:39:00 AM	1 63972		
Ethylben	zene	54	2.4		mg/Kg	1	11/17/2021 11:39:00 AM	1 63972		
Xylenes,	Total	290	4.8		mg/Kg	1	11/17/2021 11:39:00 AN	1 63972		
Surr: 4	I-Bromofluorobenzene	303	70-130	S	%Rec	1	11/17/2021 11:39:00 AM	1 63972		

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

Page 6 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA	Engineering		Cl	ient Sa	ample II	D: SS	5-5	
Project: NM	AOCD		-	Collect	tion Dat	e: 11	/10/2021 12·10·00 PM	
Lab ID: 211	11603-007	Matrix: SOIL		Recei	ved Dat	e: 11	/11/2021 11:40:00 AM	ſ
				0.1	TT •4	DE		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHO	D 300.0: ANIONS						Analys	: LRN
Chloride		200	60		mg/Kg	20	11/15/2021	63947
EPA METHO	D 7471B: MERCURY						Analys	: VP
Mercury		ND	0.033		mg/Kg	1	11/17/2021 4:16:52 PM	63999
EPA METHO	D 6010B: SOIL METALS						Analys	: JLF
Arsenic		ND	4.9		mg/Kg	1	11/17/2021 7:32:28 PM	63898
Barium		110	0.099		mg/Kg	1	11/17/2021 7:32:28 PM	63898
Cadmium		ND	0.099		mg/Kg	1	11/17/2021 7:32:28 PM	63898
Lead		2.9	0.99		mg/Kg	1	11/17/2021 7:32:28 PM	63898
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS					Analys	: SB
Diesel Range	organics (DRO)	15000	500		mg/Kg	50	11/16/2021 2:50:39 PM	63901
Motor Oil Rar	nge Organics (MRO)	8100	2500		mg/Kg	50	11/16/2021 2:50:39 PM	63901
Surr: DNO	P	0	70-130	S	%Rec	50	11/16/2021 2:50:39 PM	63901
EPA METHO	D 8015D: GASOLINE RANGE	E					Analys	ссм:
Gasoline Ran	nge Organics (GRO)	27	4.7		mg/Kg	1	11/12/2021 8:20:00 PM	63886
Surr: BFB		151	70-130	S	%Rec	1	11/12/2021 8:20:00 PM	63886
EPA METHO	D 8021B: VOLATILES						Analys	CCM
Benzene		ND	0.023		mg/Kg	1	11/12/2021 8:20:00 PM	63886
Toluene		ND	0.047		mg/Kg	1	11/12/2021 8:20:00 PM	63886
Ethylbenzene	9	ND	0.047		mg/Kg	1	11/12/2021 8:20:00 PM	63886
Xylenes, Tota	al	0.16	0.093		mg/Kg	1	11/12/2021 8:20:00 PM	63886
Surr: 4-Bro	omofluorobenzene	140	70-130	S	%Rec	1	11/12/2021 8:20:00 PM	63886

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
- Н 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 interference
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р
- RL Reporting Limit

Page 7 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: SS-6									
Project: NMOCD		(Collect	tion Dat	e: 11/	/10/2021 12:20:00 PM	1			
Lab ID: 2111603-008	Matrix: SOIL		Recei	ved Dat	e: 11/	/11/2021 11:40:00 AM	1			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analys	t: LRN			
Chloride	120	60		mg/Kg	20	11/15/2021	63947			
EPA METHOD 7471B: MERCURY						Analys	t: VP			
Mercury	ND	0.033		mg/Kg	1	11/17/2021 4:19:03 PM	1 63999			
EPA METHOD 6010B: SOIL METALS						Analys	t: JLF			
Arsenic	ND	4.8		mg/Kg	1	11/17/2021 7:34:38 PM	1 63898			
Barium	73	0.097		mg/Kg	1	11/17/2021 7:34:38 PM	1 63898			
Cadmium	ND	0.097		mg/Kg	1	11/17/2021 7:34:38 PM	1 63898			
Lead	ND	0.97		mg/Kg	1	11/17/2021 7:34:38 PM	1 63898			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analys	t: SB			
Diesel Range Organics (DRO)	11000	490		mg/Kg	50	11/16/2021 3:15:03 PM	/ 63901			
Motor Oil Range Organics (MRO)	6700	2500		mg/Kg	50	11/16/2021 3:15:03 PM	/ 63901			
Surr: DNOP	0	70-130	S	%Rec	50	11/16/2021 3:15:03 PM	/ 63901			
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	t: CCM			
Gasoline Range Organics (GRO)	32	4.7		mg/Kg	1	11/12/2021 8:39:00 PM	1 63886			
Surr: BFB	172	70-130	S	%Rec	1	11/12/2021 8:39:00 PM	1 63886			
EPA METHOD 8021B: VOLATILES						Analys	t: CCM			
Benzene	ND	0.024		mg/Kg	1	11/12/2021 8:39:00 PM	1 63886			
Toluene	ND	0.047		mg/Kg	1	11/12/2021 8:39:00 PM	1 63886			
Ethylbenzene	0.064	0.047		mg/Kg	1	11/12/2021 8:39:00 PM	1 63886			
Xylenes, Total	0.35	0.094		mg/Kg	1	11/12/2021 8:39:00 PM	1 63886			
Surr: 4-Bromofluorobenzene	150	70-130	S	%Rec	1	11/12/2021 8:39:00 PM	1 63886			

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

Page 8 of 37

Analytical Report

Lab Order 2111603

Date Reported: 11/29/2021

11/13/2021 12:54:00 AM R82818

Analyst: CCM

	-											
CLIENT:	EA Engineering	Client Sample ID: SS-7A										
Project:	NMOCD			(Collect	ion Dat	t e: 11/1	10/2021 12	:40:00 PM			
Lab ID:	2111603-009	Matrix:	AQUE	EOUS	Recei	ved Dat	t e: 11/1	11/2021 11	:40:00 AM			
Analyses		R	esult	RL	Qual	Units	DF	Date Anal	yzed	Batch		
EPA MET	HOD 300.0: ANIONS								Analyst:	ЈМТ		
Chloride			1600	50	*	mg/L	100	11/11/2021	8:15:57 PM	R82800		
EPA MET	HOD 7470A: MERCURY								Analyst:	VP		
Mercury			ND	0.00020		mg/L	1	11/18/2021	12:14:47 PM	l 64017		
EPA 6010	B: TOTAL RECOVERABLE	METALS							Analyst:	JLF		
Arsenic			ND	0.030		mg/L	1	11/16/2021	4:09:36 PM	63941		
Barium			0.47	0.0020		mg/L	1	11/16/2021	4:09:36 PM	63941		
Cadmiun	n		ND	0.0020		mg/L	1	11/16/2021	4:09:36 PM	63941		
Lead			0.026	0.020		mg/L	1	11/16/2021	4:09:36 PM	63941		
EPA MET	HOD 8015M/D: DIESEL RA	NGE							Analyst:	SB		
Diesel Ra	ange Organics (DRO)		ND	1.0		mg/L	1	11/15/2021	8:57:36 PM	63878		
Motor Oi	I Range Organics (MRO)		ND	5.0		mg/L	1	11/15/2021	8:57:36 PM	63878		
Surr: [ONOP		94.8	64.8-167		%Rec	1	11/15/2021	8:57:36 PM	63878		
EPA MET	HOD 8015D: GASOLINE R	ANGE							Analyst:	ССМ		

ND

99.3

ND

ND

ND

ND

ND

ND

103

0.050

1.0

1.0

1.0

2.0

1.0

1.0

70-130

68.5-136

mg/L

%Rec

µg/L

µg/L

µg/L

µg/L

µg/L

µg/L

%Rec

1

1

1

1

1

1

1

1

1

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Surr: 4-Bromofluorobenzene

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

H Holding times for preparation or analysis exceededNOt Detected at the Reporting Limit

NDNot Detected at the Reporting LPQLPractical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- 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

Page 9 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering		Cli	ient Sample II	D: SS	-8	
Project: NMOCD		(collection Dat	e: 11/	/10/2021 1:05:00 PM	
Lab ID: 2111603-010	Matrix: SOIL		Received Date	e: 11/	/11/2021 11:40:00 AM	-
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	200	60	mg/Kg	20	11/15/2021	63947
EPA METHOD 7471B: MERCURY					Analyst	: VP
Mercury	ND	0.033	mg/Kg	1	11/17/2021 4:21:13 PM	63999
EPA METHOD 6010B: SOIL METALS					Analyst	JLF
Arsenic	ND	4.9	mg/Kg	1	11/17/2021 7:39:12 PM	63898
Barium	59	0.099	mg/Kg	1	11/17/2021 7:39:12 PM	63898
Cadmium	ND	0.099	mg/Kg	1	11/17/2021 7:39:12 PM	63898
Lead	1.3	0.99	mg/Kg	1	11/17/2021 7:39:12 PM	63898
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	400	43	mg/Kg	5	11/17/2021 8:29:46 PM	63901
Motor Oil Range Organics (MRO)	530	220	mg/Kg	5	11/17/2021 8:29:46 PM	63901
Surr: DNOP	96.7	70-130	%Rec	5	11/17/2021 8:29:46 PM	63901
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/12/2021 8:59:00 PM	63886
Surr: BFB	117	70-130	%Rec	1	11/12/2021 8:59:00 PM	63886
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	11/12/2021 8:59:00 PM	63886
Toluene	ND	0.049	mg/Kg	1	11/12/2021 8:59:00 PM	63886
Ethylbenzene	ND	0.049	mg/Kg	1	11/12/2021 8:59:00 PM	63886
Xylenes, Total	ND	0.097	mg/Kg	1	11/12/2021 8:59:00 PM	63886
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	11/12/2021 8:59:00 PM	63886

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 MatrixH 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 interference

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

Page 10 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: SS-9									
Project: NMOCD		(Collect	tion Dat	e: 11,	/10/2021 1:55:00 PM				
Lab ID: 2111603-011	Matrix: SOIL		Recei	ved Dat	e: 11,	/11/2021 11:40:00 AM	[
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	: LRN			
Chloride	280	60		mg/Kg	20	11/15/2021	63947			
EPA METHOD 7471B: MERCURY						Analyst	: VP			
Mercury	ND	0.033		mg/Kg	1	11/17/2021 4:23:25 PM	63999			
EPA METHOD 6010B: SOIL METALS						Analyst	: JLF			
Arsenic	ND	5.0		mg/Kg	1	11/17/2021 7:41:25 PM	63898			
Barium	120	0.10		mg/Kg	1	11/17/2021 7:41:25 PM	63898			
Cadmium	ND	0.10		mg/Kg	1	11/17/2021 7:41:25 PM	63898			
Lead	4.3	1.0		mg/Kg	1	11/17/2021 7:41:25 PM	63898			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: ТОМ			
Diesel Range Organics (DRO)	450	47		mg/Kg	5	11/18/2021 8:56:51 AM	63901			
Motor Oil Range Organics (MRO)	300	240		mg/Kg	5	11/18/2021 8:56:51 AM	63901			
Surr: DNOP	95.4	70-130		%Rec	5	11/18/2021 8:56:51 AM	63901			
EPA METHOD 8015D: GASOLINE RANGE	1					Analyst	ссм:			
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	11/12/2021 9:18:00 PM	63886			
Surr: BFB	167	70-130	S	%Rec	1	11/12/2021 9:18:00 PM	63886			
EPA METHOD 8021B: VOLATILES						Analyst	ССМ			
Benzene	ND	0.024		mg/Kg	1	11/12/2021 9:18:00 PM	63886			
Toluene	ND	0.048		mg/Kg	1	11/12/2021 9:18:00 PM	63886			
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2021 9:18:00 PM	63886			
Xylenes, Total	ND	0.097		mg/Kg	1	11/12/2021 9:18:00 PM	63886			
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	11/12/2021 9:18:00 PM	63886			

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
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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

Page 11 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT:	EA Engineering		Cl	ient Sa	ample II	D: SS	-10				
Project:	NMOCD		(Collect	tion Dat	e: 11/	/10/2021 2:35:00 PM				
Lab ID:	2111603-012	Matrix: SOIL		Received Date: 11/11/2021 11:40:00 AM							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch			
	THOD 300.0: ANIONS						Analyst	CAS			
Chloride		2200	150		mg/Kg	50	11/16/2021 10:31:59 P	M 63947			
	THOD 7471B: MERCURY						Analyst	: VP			
Mercury		ND	0.033		mg/Kg	1	11/17/2021 4:25:36 PM	63999			
	THOD 6010B: SOIL METALS						Analyst	JLF			
Arsenic		ND	4.8		mg/Kg	1	11/17/2021 7:43:48 PM	63898			
Barium		75	0.095		mg/Kg	1	11/17/2021 7:43:48 PN	63898			
Cadmiur	n	ND	0.095		mg/Kg	1	11/17/2021 7:43:48 PN	63898			
Lead		1.0	0.95		mg/Kg	1	11/17/2021 7:43:48 PN	63898			
	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: SB			
Diesel R	ange Organics (DRO)	3800	190		mg/Kg	20	11/16/2021 4:28:02 PN	63901			
Motor O	il Range Organics (MRO)	2500	930		mg/Kg	20	11/16/2021 4:28:02 PN	63901			
Surr:	DNOP	0	70-130	S	%Rec	20	11/16/2021 4:28:02 PN	63901			
EPA ME	THOD 8015D: GASOLINE RANGE						Analyst	CCM			
Gasoline	e Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2021 9:38:00 PN	63886			
Surr:	BFB	97.7	70-130		%Rec	1	11/12/2021 9:38:00 PM	63886			
EPA ME	THOD 8021B: VOLATILES						Analyst	CCM			
Benzene	9	ND	0.024		mg/Kg	1	11/12/2021 9:38:00 PN	63886			
Toluene		ND	0.048		mg/Kg	1	11/12/2021 9:38:00 PN	63886			
Ethylber	izene	ND	0.048		mg/Kg	1	11/12/2021 9:38:00 PN	63886			
Xylenes,	, Total	ND	0.096		mg/Kg	1	11/12/2021 9:38:00 PN	63886			
Surr: 4	4-Bromofluorobenzene	105	70-130		%Rec	1	11/12/2021 9:38:00 PM	63886			

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

Page 12 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering		Cl	ient Sa	ample II	D:SS-	-11			
Project: NMOCD		(Collect	ion Dat	e: 11/	10/2021 3:00:00 PM			
Lab ID: 2111603-013	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	CAS		
Chloride	20000	1500		mg/Kg	500	11/16/2021 10:44:23 PM	/ 63947		
EPA METHOD 7471B: MERCURY						Analyst	VP		
Mercury	ND	0.033		mg/Kg	1	11/17/2021 4:27:48 PM	63999		
EPA METHOD 6010B: SOIL METALS						Analyst	JLF		
Arsenic	ND	4.9		ma/Ka	1	11/17/2021 7:46:11 PM	63898		
Barium	62	0.098		mg/Kg	1	11/17/2021 7:46:11 PM	63898		
Cadmium	ND	0.098		mg/Kg	1	11/17/2021 7:46:11 PM	63898		
Lead	ND	0.98		mg/Kg	1	11/17/2021 7:46:11 PM	63898		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	2100	190		mg/Kg	20	11/16/2021 4:52:18 PM	63901		
Motor Oil Range Organics (MRO)	2100	960		mg/Kg	20	11/16/2021 4:52:18 PM	63901		
Surr: DNOP	0	70-130	S	%Rec	20	11/16/2021 4:52:18 PM	63901		
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	CCM		
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/12/2021 9:57:00 PM	63886		
Surr: BFB	95.3	70-130		%Rec	1	11/12/2021 9:57:00 PM	63886		
EPA METHOD 8021B: VOLATILES						Analyst	CCM		
Benzene	ND	0.024		mg/Kg	1	11/12/2021 9:57:00 PM	63886		
Toluene	ND	0.048		mg/Kg	1	11/12/2021 9:57:00 PM	63886		
Ethylbenzene	ND	0.048		mg/Kg	1	11/12/2021 9:57:00 PM	63886		
Xylenes, Total	ND	0.096		mg/Kg	1	11/12/2021 9:57:00 PM	63886		
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	11/12/2021 9:57:00 PM	63886		

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р
- RL Reporting Limit

Page 13 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering		Client Sample ID: SS-12										
Project: NMOCD		(Collection Dat	e: 11	/10/2021 3:35:00 PM							
Lab ID: 2111603-014	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analys	it: LRN						
Chloride	390	60	mg/Kg	20	11/15/2021	63947						
EPA METHOD 7471B: MERCURY					Analys	t: VP						
Mercury	ND	0.033	mg/Kg	1	11/17/2021 4:30:01 PM	A 63999						
EPA METHOD 6010B: SOIL METALS					Analys	t: JLF						
Arsenic	ND	4.8	mg/Kg	1	11/17/2021 7:48:24 PM	A 63898						
Barium	280	0.19	mg/Kg	2	11/18/2021 7:09:31 PM	/ 63898						
Cadmium	ND	0.097	mg/Kg	1	11/17/2021 7:48:24 PM	A 63898						
Lead	ND	0.97	mg/Kg	1	11/17/2021 7:48:24 PM	/ 63898						
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: SB						
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	11/16/2021 5:16:33 PM	/ 63901						
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	11/16/2021 5:16:33 PM	/ 63901						
Surr: DNOP	114	70-130	%Rec	1	11/16/2021 5:16:33 PM	/ 63901						
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	t: CCM						
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/12/2021 10:17:00 F	PM 63886						
Surr: BFB	98.7	70-130	%Rec	1	11/12/2021 10:17:00 F	PM 63886						
EPA METHOD 8021B: VOLATILES					Analys	t: CCM						
Benzene	ND	0.023	mg/Kg	1	11/12/2021 10:17:00 F	PM 63886						
Toluene	ND	0.046	mg/Kg	1	11/12/2021 10:17:00 F	PM 63886						
Ethylbenzene	ND	0.046	mg/Kg	1	11/12/2021 10:17:00 F	PM 63886						
Xylenes, Total	ND	0.093	mg/Kg	1	11/12/2021 10:17:00 F	PM 63886						
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	11/12/2021 10:17:00 F	M 63886						

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 interference
- 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

Page 14 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: SS-13										
Project: NMOCD		(Collect	ion Dat	e: 11/	/10/2021 4:00:00 PM					
Lab ID: 2111603-015	Matrix: SOIL		[
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	CAS				
Chloride	4200	150		mg/Kg	50	11/16/2021 10:56:47 PM	M 63947				
EPA METHOD 7471B: MERCURY						Analyst	: VP				
Mercury	ND	0.033		mg/Kg	1	11/17/2021 4:32:11 PM	63999				
EPA METHOD 6010B: SOIL METALS						Analyst	: JLF				
Arsenic	ND	4.9		mg/Kg	1	11/17/2021 8:01:19 PM	63898				
Barium	100	0.098		mg/Kg	1	11/17/2021 8:01:19 PM	63898				
Cadmium	ND	0.098		mg/Kg	1	11/17/2021 8:01:19 PM	63898				
Lead	ND	0.98		mg/Kg	1	11/17/2021 8:01:19 PM	63898				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: SB				
Diesel Range Organics (DRO)	1400	190		mg/Kg	20	11/16/2021 5:40:45 PM	63901				
Motor Oil Range Organics (MRO)	1000	930		mg/Kg	20	11/16/2021 5:40:45 PM	63901				
Surr: DNOP	0	70-130	S	%Rec	20	11/16/2021 5:40:45 PM	63901				
EPA METHOD 8015D: GASOLINE RANGE						Analyst	ССМ				
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/12/2021 11:16:00 PM	M 63886				
Surr: BFB	99.8	70-130		%Rec	1	11/12/2021 11:16:00 PM	M 63886				
EPA METHOD 8021B: VOLATILES						Analyst	CCM				
Benzene	ND	0.025		mg/Kg	1	11/12/2021 11:16:00 PM	M 63886				
Toluene	ND	0.049		mg/Kg	1	11/12/2021 11:16:00 PM	M 63886				
Ethylbenzene	ND	0.049		mg/Kg	1	11/12/2021 11:16:00 PM	M 63886				
Xylenes, Total	ND	0.099		mg/Kg	1	11/12/2021 11:16:00 PM	M 63886				
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	11/12/2021 11:16:00 PM	M 63886				

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

Page 15 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: SS-14											
Lab ID: 2111603-016	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM										
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS						Analys	st: CAS					
Chloride	27000	1500		mg/Kg	500	11/16/2021 11:09:12	PM 63947					
EPA METHOD 7471B: MERCURY						Analys	st: VP					
Mercury	ND	0.033		mg/Kg	1	11/17/2021 4:34:21 P	M 63999					
EPA METHOD 6010B: SOIL METALS						Analys	st: JLF					
Arsenic	ND	5.0		mg/Kg	1	11/17/2021 8:03:38 P	M 63898					
Barium	160	0.10		mg/Kg	1	11/17/2021 8:03:38 P	M 63898					
Cadmium	ND	0.10		mg/Kg	1	11/17/2021 8:03:38 P	M 63898					
Lead	ND	1.0		mg/Kg	1	11/17/2021 8:03:38 P	M 63898					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	st: SB					
Diesel Range Organics (DRO)	3700	430		mg/Kg	50	11/16/2021 6:04:52 P	M 63901					
Motor Oil Range Organics (MRO)	2800	2200		mg/Kg	50	11/16/2021 6:04:52 P	M 63901					
Surr: DNOP	0	70-130	S	%Rec	50	11/16/2021 6:04:52 P	M 63901					
EPA METHOD 8015D: GASOLINE RANG	E					Analys	st: CCM					
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/12/2021 11:36:00 I	PM 63886					
Surr: BFB	97.5	70-130		%Rec	1	11/12/2021 11:36:00	PM 63886					
EPA METHOD 8021B: VOLATILES						Analys	st: CCM					
Benzene	ND	0.025		mg/Kg	1	11/12/2021 11:36:00 I	PM 63886					
Toluene	ND	0.050		mg/Kg	1	11/12/2021 11:36:00 I	PM 63886					
Ethylbenzene	ND	0.050		mg/Kg	1	11/12/2021 11:36:00	PM 63886					
Xylenes, Total	ND	0.10		mg/Kg	1	11/12/2021 11:36:00	PM 63886					
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/12/2021 11:36:00	PM 63886					

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 MatrixH 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 interference
- 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

Page 16 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: SS-15											
Project: NMOCD		(Collect	tion Dat	e: 11,	/10/2021 5:20:00 PM						
Lab ID: 2111603-017	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM										
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS						Analys	t: CAS					
Chloride	4300	150		mg/Kg	50	11/16/2021 11:21:37 P	M 63947					
EPA METHOD 7471B: MERCURY						Analys	t: VP					
Mercury	ND	0.034		mg/Kg	1	11/17/2021 4:36:30 PN	1 63999					
EPA METHOD 6010B: SOIL METALS						Analys	t: JLF					
Arsenic	ND	4.9		mg/Kg	1	11/17/2021 8:05:59 PN	1 63898					
Barium	78	0.097		mg/Kg	1	11/17/2021 8:05:59 PN	1 63898					
Cadmium	ND	0.097		mg/Kg	1	11/17/2021 8:05:59 PN	1 63898					
Lead	1.8	0.97		mg/Kg	1	11/17/2021 8:05:59 PN	1 63898					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: SB					
Diesel Range Organics (DRO)	2800	200		mg/Kg	20	11/16/2021 6:29:00 PN	/ 63901					
Motor Oil Range Organics (MRO)	2300	1000		mg/Kg	20	11/16/2021 6:29:00 PN	/ 63901					
Surr: DNOP	0	70-130	S	%Rec	20	11/16/2021 6:29:00 PN	/ 63901					
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: CCM					
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/12/2021 11:55:00 P	M 63886					
Surr: BFB	93.9	70-130		%Rec	1	11/12/2021 11:55:00 P	M 63886					
EPA METHOD 8021B: VOLATILES						Analys	t: CCM					
Benzene	ND	0.025		mg/Kg	1	11/12/2021 11:55:00 P	M 63886					
Toluene	ND	0.050		mg/Kg	1	11/12/2021 11:55:00 P	M 63886					
Ethylbenzene	ND	0.050		mg/Kg	1	11/12/2021 11:55:00 P	M 63886					
Xylenes, Total	ND	0.10		mg/Kg	1	11/12/2021 11:55:00 P	M 63886					
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/12/2021 11:55:00 P	M 63886					

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

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

S % Recovery outside of range due to dilution or matrix interference

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

Page 17 of 37

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/29/2021

CLIENT:	EA Engineering	Client Sample ID: SS-16										
Project:	NMOCD		(Collect	ion Dat	e: 11/	10/2021 5:32:00 PM					
Lab ID:	2111603-018	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM									
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch				
EPA MET	THOD 300.0: ANIONS						Analyst	CAS				
Chloride		10000	600		mg/Kg	200	11/17/2021 12:11:15 A	M 63947				
EPA MET	THOD 7471B: MERCURY						Analyst	: VP				
Mercury		ND	0.033		mg/Kg	1	11/17/2021 4:43:00 PM	63999				
EPA MET	THOD 6010B: SOIL METALS						Analyst	: JLF				
Arsenic		ND	4.9		ma/Ka	1	11/17/2021 8:08:12 PN	63898				
Barium		110	0.098		mg/Kg	1	11/17/2021 8:08:12 PM	63898				
Cadmiur	n	1.4	0.098		mg/Kg	1	11/17/2021 8:08:12 PM	63898				
Lead		3.5	0.98		mg/Kg	1	11/17/2021 8:08:12 PN	63898				
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: SB				
Diesel R	ange Organics (DRO)	8000	470		mg/Kg	50	11/17/2021 4:12:33 PM	63901				
Motor Oi	I Range Organics (MRO)	5900	2400		mg/Kg	50	11/17/2021 4:12:33 PM	63901				
Surr: I	DNOP	0	70-130	S	%Rec	50	11/17/2021 4:12:33 PN	63901				
EPA ME	THOD 8015D: GASOLINE RANGE						Analyst	ссм				
Gasoline	Range Organics (GRO)	ND	5.0		mg/Kg	1	11/13/2021 12:15:00 A	M 63886				
Surr: I	BFB	95.6	70-130		%Rec	1	11/13/2021 12:15:00 A	M 63886				
EPA MET	THOD 8021B: VOLATILES						Analyst	CCM				
Benzene	9	ND	0.025		mg/Kg	1	11/13/2021 12:15:00 A	M 63886				
Toluene		ND	0.050		mg/Kg	1	11/13/2021 12:15:00 A	M 63886				
Ethylben	zene	ND	0.050		mg/Kg	1	11/13/2021 12:15:00 A	M 63886				
Xylenes,	Total	ND	0.099		mg/Kg	1	11/13/2021 12:15:00 A	M 63886				
Surr: 4	4-Bromofluorobenzene	108	70-130		%Rec	1	11/13/2021 12:15:00 A	M 63886				

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

Page 18 of 37

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2111603 Date Reported: 11/29/2021

CLIENT: EA Engineering	Client Sample ID: BG-2											
Project: NMOCD		(Collection Date	e: 11/	/10/2021 5:50:00 PM							
Lab ID: 2111603-019	Matrix: SOIL	Received Date: 11/11/2021 11:40:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analys	CAS						
Chloride	12000	600	mg/Kg	200) 11/17/2021 12:23:39 A	M 63947						
EPA METHOD 7471B: MERCURY					Analys	: VP						
Mercury	ND	0.033	mg/Kg	1	11/17/2021 4:45:10 PM	63999						
EPA METHOD 6010B: SOIL METALS					Analys	: JLF						
Arsenic	ND	4.8	mg/Kg	1	11/17/2021 8:10:20 PM	63898						
Barium	91	0.097	mg/Kg	1	11/18/2021 7:11:43 PM	63898						
Cadmium	ND	0.097	mg/Kg	1	11/17/2021 8:10:20 PM	63898						
Lead	2.5	0.97	mg/Kg	1	11/17/2021 8:10:20 PM	63898						
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: SB						
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/17/2021 4:38:38 PM	63901						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/17/2021 4:38:38 PM	63901						
Surr: DNOP	84.4	70-130	%Rec	1	11/17/2021 4:38:38 PM	63901						
EPA METHOD 8015D: GASOLINE RANGE					Analys	CCM						
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/13/2021 12:34:00 A	M 63886						
Surr: BFB	92.8	70-130	%Rec	1	11/13/2021 12:34:00 A	M 63886						
EPA METHOD 8021B: VOLATILES					Analys	CCM						
Benzene	ND	0.025	mg/Kg	1	11/13/2021 12:34:00 A	M 63886						
Toluene	ND	0.050	mg/Kg	1	11/13/2021 12:34:00 A	M 63886						
Ethylbenzene	ND	0.050	mg/Kg	1	11/13/2021 12:34:00 A	M 63886						
Xylenes, Total	ND	0.099	mg/Kg	1	11/13/2021 12:34:00 A	M 63886						
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	11/13/2021 12:34:00 A	M 63886						

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 MatrixH 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 interference
- 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

Page 19 of 37

Date Reported: 11/29/2021

11/13/2021 1:33:00 AM R82818

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Project: NMOCD

Lab ID:

Analyses

Benzene

Toluene

Ethylbenzene

Xylenes, Total

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Surr: 4-Bromofluorobenzene

Client Sample ID: TB-1 Collection Date: 11/10/2021 6:00:00 PM

1

1

1

1

1

2111603-020 Matrix: TRIP BLANK Received Date: 11/11/2021 11:40:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 1.0 µg/L 1 11/13/2021 1:33:00 AM R82818 ND 1.0 µg/L 11/13/2021 1:33:00 AM R82818 1

1.0

2.0

1.0

1.0

70-130

µg/L

µg/L

µg/L

µg/L

%Rec

ND

ND

ND

ND

103

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- Reporting Limit RL

Page 20 of 37



ANALYTICAL SUMMARY REPORT

November 23, 2021

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B21111237 Quote ID: B5636

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 11/12/2021 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Dat	e Matrix	Test
B21111237-001	2111603-006C SS-5A	11/10/21 12:03 11/12/21	Oil	Metals by ICP/ICPMS, Total or Soluble Mercury in Solid By CVAA Anions, Water Extractable Total Metals Digestion by SW3050B DI Water Soil Extract ASA10-3 Mercury Digestion by SW7471B

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:Hall EnvironmentalProject:Not IndicatedLab ID:B21111237-001Client Sample ID:2111603-006C SS-5A

 Report Date:
 11/23/21

 Collection Date:
 11/10/21 12:03

 DateReceived:
 11/12/21

 Matrix:
 Oil

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUENTS							
Chloride, 1:10	78	mg/kg		1		E300.0	11/17/21 20:17 / jph
METALS, TOTAL - EPA SW846							
Arsenic	4	mg/kg		1		SW6020	11/19/21 18:58 / car
Barium	21	mg/kg		1		SW6020	11/19/21 18:58 / car
Cadmium	ND	mg/kg		1		SW6020	11/19/21 18:58 / car
Lead	2	mg/kg		1		SW6020	11/23/21 15:22 / car
Mercury	ND	mg/kg		0.1		SW7471B	11/18/21 12:17 / jag



Prepared by Billings, MT Branch

Client:	Hall Environmental				Work Order:	B2111	1237	Repo	rt Date:	11/23/21	
Analyte		Cour	t Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020							Analytic	al Run: IC	CPMS206-B	_211119A
Lab ID:	ICSA	4	Interference C	heck Sam	ole A					11/19	/21 14:55
Arsenic			0.0000836	mg/L	0.0010						
Barium			0.0000784	mg/L	0.0010						
Cadmium	1		0.000558	mg/L	0.0010						
Lead			0.0000180	mg/L	0.0010						
Lab ID:	ICSAB	4	Interference C	heck Sam	ole AB					11/19	/21 15:00
Arsenic			0.00964	mg/L	0.0010	96	80	120			
Barium			0.0000740	mg/L	0.0010						
Cadmium	1		0.0102	mg/L	0.0010	102	80	120			
Lead			0.0000112	mg/L	0.0010						
Lab ID:	QCS	4	Initial Calibrati	on Verifica	tion Standard					11/19	/21 14:27
Arsenic			0.0510	mg/L	0.0010	102	90	110			
Barium			0.0539	mg/L	0.0010	108	90	110			
Cadmium	1		0.0257	mg/L	0.0010	103	90	110			
Lead			0.0516	mg/L	0.0010	103	90	110			
Method:	SW6020									Batc	h: 161493
Lab ID:	MB-161493	4	Method Blank				Run: ICPM	S206-B_211119	A	11/19	/21 17:56
Arsenic			ND	mg/kg	0.3						
Barium			0.1	mg/kg	0.06						
Cadmium	1		ND	mg/kg	0.01						
Lead			ND	mg/kg	0.2						
Lab ID:	SRM2-161493	4	Standard Refe	erence Mat	erial		Run: ICPM	S206-B_211119	A	11/19	/21 18:02
Arsenic			90.7	mg/kg	13	91	70	130			
Barium			90.8	mg/kg	2.5	91	70	130			
Cadmium	1		93.2	mg/kg	1.0	93	70	130			
Lead			91.9	mg/kg	8.7	92	70	130			
Lab ID:	B21111515-001ADIL	4	Serial Dilution				Run: ICPM	S206-B_211119	A	11/19	/21 18:30
Arsenic			ND	mg/kg	3.0					10	
Barium			ND	mg/kg	1.0					10	
Cadmium	1		ND	mg/kg	1.0					10	
Lead			ND	mg/kg	2.1					10	
Lab ID:	B21111515-001APDS	51 4	Post Digestion	/Distillatio	n Spike		Run: ICPM	S206-B_211119	A	11/19	/21 18:36
Arsenic			5.03	mg/kg	1.0	104	75	125			
Barium			4.44	mg/kg	1.0	92	75	125			
Cadmium	1		4.26	mg/kg	1.0	88	75	125			
Lead			4.30	mg/kg	1.0	89	75	125			
Lab ID:	B21111515-001AMS3	3 4	Sample Matrix	Spike			Run: ICPM	S206-B 211119	A	11/19	/21 18:41
Arsenic			98.8	mg/kg	12	103	75	125			
Barium			95.9	mg/kg	2.4	100	75	125			
Cadmium	1		48.0	mg/kg	1.0	100	75	125			
Lead			96.5	mg/kg	8.4	101	75	125			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Prepared by Billings, MT Branch

Client:	Hall Environmental				Work Order:	B2111	1237	Repo			
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020									Batc	h: 161493
Lab ID:	B21111515-001AMS) 4 San	nple Matrix	Spike Dup	licate		Run: ICPM	S206-B_211119	A	11/19/	/21 18:47
Arsenic			82.6	mg/kg	11	93	75	125	18	20	
Barium			82.8	mg/kg	2.2	94	75	125	15	20	
Cadmium	1		41.0	mg/kg	1.0	93	75	125	16	20	
Lead			82.2	mg/kg	7.8	93	75	125	16	20	
Method:	SW6020							Analytic	al Run: I	CPMS207-B	_211123A
Lab ID:	ICSA	Inte	rference C	heck Samp	le A					11/23/	/21 13:15
Lead		0.	0000256	mg/L	0.0010						
Lab ID:	ICSAB	Inte	rference C	heck Samp	le AB					11/23/	/21 13:21
Lead		0.	0000235	mg/L	0.0010						
Lab ID:	QCS	Initia	al Calibrati	on Verificat	ion Standard					11/23/	/21 12:39
Lead			0.0484	mg/L	0.0010	97	90	110			
Method:	SW6020									Batc	h: 161493
Lab ID:	MB-161493	Met	hod Blank				Run: ICPM	S207-B_211123	A	11/23/	/21 16:46
Lead			0.6	mg/kg	0.2						



Prepared by Billings, MT Branch

Client:	Hall Environmental			Work Order:	B2111	1237	Repor	t Date:	11/23/21	
Analyte		Count Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW7471B						Analytica	al Run: I	HGCV202-B	_211118A
Lab ID:	ICV	Initial Calibra	tion Verification	on Standard					11/18/	/21 11:38
Mercury		0.00219	mg/kg	0.10	110	90	110			
Method:	SW7471B								Batc	h: 161342
Lab ID:	MB-161342	Method Blank	ζ.			Run: HGC\	/202-B_211118A		11/18/	/21 11:43
Mercury		0.006	mg/kg	0.005						
Lab ID:	LCS3-161342	Laboratory C	ontrol Sample	9		Run: HGCV	/202-B_211118A		11/18	/21 11:45
Mercury		0.228	mg/kg	0.10	114	80	120			
Lab ID:	B21111049-001ADIL	Serial Dilutior	ı			Run: HGC\	/202-B_211118A		11/18	/21 12:09
Mercury		0.132	mg/kg-dry	0.10				66	10	R
Lab ID:	B21111049-001AMS	3 Sample Matri	x Spike			Run: HGC\	/202-B_211118A		11/18/	/21 12:10
Mercury		0.380	mg/kg-dry	0.10	60	80	120			S
Lab ID:	B21111049-001AMS	D Sample Matri	x Spike Dupli	cate		Run: HGC\	/202-B_211118A		11/18/	/21 12:12
Mercury		0.523	mg/kg-dry	0.10	132	80	120	32	20	SR
Lab ID:	B21111049-001ADIL	Serial Dilutior	ı			Run: HGCV	/202-B_211118A		11/18/	/21 12:45
Mercury		0.136	mg/kg-dry	0.24					10	

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit



Prepared by Billings, MT Branch

Client:	Hall Environmental				Work Order:	B2111	1237	Repo	ort Date:	11/18/21	
Analyte		Count Res	sult	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E300.0									Batc	h: 161401
Lab ID:	LCS-161401	Laborato	ry Coi	ntrol Sample			Run: IC ME	TROHM 1_211	117A	11/17/	21 18:55
Chloride,	1:10	6	69.6	mg/kg	1.0	104	70	130			
Lab ID:	B21110991-001AMS	Sample N	Matrix	Spike			Run: IC ME	TROHM 1_211	117A	11/17/	21 19:28
Chloride,	1:10	13	400	mg/kg	1.0	106	70	130			
Lab ID:	B21110991-001ADU	P Sample [Duplic	ate			Run: IC ME	TROHM 1_211	117A	11/17/	21 19:44
Chloride,	1:10	8	220	mg/kg	1.0				1.9	30	



Work Order Receipt Checklist

Hall Environmental

B21111237

Login completed by:	Richard L. Shular		Date	Received: 11/12/2021
Reviewed by:	BL2000\gmccartney		Red	ceived by: tkb
Reviewed Date:	11/17/2021		Cari	rier name: Return-UPS NDA
Shipping container/cooler in	good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes 🗹	No 🗌	Not Present
Custody seals intact on all s	ample bottles?	Yes 🗌	No 🗌	Not Present 🗹
Chain of custody present?		Yes 🗹	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌	
Chain of custody agrees with	n sample labels?	Yes 🗹	No 🗌	
Samples in proper container	/bottle?	Yes 🗹	No 🗌	
Sample containers intact?		Yes 🗹	No 🗌	
Sufficient sample volume for	rindicated test?	Yes 🗹	No 🗌	
All samples received within h (Exclude analyses that are c such as pH, DO, Res CI, Su	nolding time? onsidered field parameters Ilfite, Ferrous Iron, etc.)	Yes 🗹	No 🗌	
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	erature:	10.4°C Blue Ice		
Containers requiring zero he bubble that is <6mm (1/4").	adspace have no headspace or	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon	receipt?	Yes 🗌	No 🗌	Not Applicable

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

None

HALL	ENVIRONMENTAL	ANALYSIS	LABORATORY
			

Hall Environmental Analysis Laboratory 4901 Hawkins VE Albuquerque VM 87109 TEL 505-345-3975 EAX 505-345-4107 Website clients hallenvironmental com

SUBCC	OVTRATOR Energ	y Labs -Billings Company	Energy Laborator	ies	Pitch	(406) 869-6253	FAX	(406) 252-6069
ADDRE	ESS 1120 S	outh 27th Street			ACCULAT #		EMAIL	
CITY S	STATE ZIP Billing	s, MT 59107						
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION		ALYTICAL	B2111237 COMMENTS
1	2111603-006C	SS-5A	125HDP	ō	M4 00 20 1 1 10/2021 1 1 03 00 PM	1 Chloride, Lead, Mercury, (Cadmium, Barium,	Arsenic "RUSH 7 BAY TAT"

SPECIAL INSTRUCTIONS (COMMENTS)

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports Please e-mail results to lab/@hallenvironmental com Please return all coolers and blue ice Thank you



QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client:	EA Engin	eering									
Project:	NMOCD										
Sample ID:	MB-63931	SampType:	mblk	Tes	tCode: EPA Me	thod 300.0: Anions					
Client ID:	PBS	Batch ID:	63931	F	tunNo: 82840						
Prep Date:	11/15/2021	Analysis Date:	11/15/2021	S	eqNo: 294209 4	4 Units: mg/Kg	I				
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND 1	.5								
Sample ID:	LCS-63931	SampType:	lcs	Tes	tCode: EPA Me	thod 300.0: Anions					
Client ID:	LCSS	Batch ID:	63931	F	tunNo: 82840						
Prep Date:	11/15/2021	Analysis Date:	11/15/2021	S	eqNo: 2942095	5 Units: mg/Kg	I				
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual		
Chloride		14 1	.5 15.00	0	91.7	90 110					
Sample ID:	MB-63947	SampType:	mblk	Tes	tCode: EPA Me	Method 300.0: Anions					
Client ID:	PBS	Batch ID:	63947	F	unNo: 82860						
Prep Date:	11/15/2021	Analysis Date:	11/15/2021	S	eqNo: 2942182	2 Units: mg/Kg	Units: mg/Kg				
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND 1	.5								
Sample ID:	LCS-63947	SampType:	lcs	Tes	tCode: EPA Me	thod 300.0: Anions					
Client ID:	LCSS	Batch ID:	63947	F	unNo: 82860						
Prep Date:	11/15/2021	Analysis Date:	11/15/2021	S	eqNo: 2942183	3 Units: mg/Kg	I				
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowL	_imit HighLimit	%RPD	RPDLimit	Qual		
Chloride		1 4 1	.5 15.00	0	90.4	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 interference
- 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

Page 21 of 37

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client: Project:		EA Engineer NMOCD	ing									
Sample ID:	MB		SampTy	pe: m l	blk	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	PBW		Batch	D: R8	32800	R	RunNo: 8	2800				
Prep Date:		An	alysis Da	te: 1	1/11/2021	S	SeqNo: 2	939624	Units: mg/L			
Analyte		R	lesult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			ND	0.50								
Sample ID:	LCS		SampTy	pe: Ic:	6	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	LCSW		Batch	D: R8	32800	R	RunNo: 8	2800				
Prep Date:		An	alysis Da	te: 1	1/11/2021	S	SeqNo: 2	939625	Units: mg/L			
Analyte		R	lesult	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			4.6	0.50	5.000	0	92.1	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 interference
- 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

Page 22 of 37

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client:	EA Engin	eering									
Project:	NMOCD										
Sample ID:	MB-63939	SampT	ype: ME	BLK	Tes	tCode: DI	RO by 8015	D			
Client ID:	PBW	Batch	n ID: 639	939	F	RunNo: 8	2832				
Prep Date:	11/15/2021	Analysis D	ate: 11	/15/2021	S	SeqNo: 2	941226	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	0.10								
Motor Oil Rang	e Organics (MRO)	ND	0.50								
Surr: DNOP		0.090		0.1000		90.5	64.9	131			
Sample ID:	MB-63939	SampT	ype: ME	BLK	Tes	tCode: DI	RO by 8015	D			
Client ID:	PBW	Batch	n ID: 639	939	F	RunNo: 8 2	2831				
Prep Date:	11/15/2021	Analysis D	ate: 11	/15/2021	5	SeqNo: 2	942249	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	0.10								
Motor Oil Range	e Organics (MRO)	ND	0.50								
Surr: DNOP		0.11		0.1000		108	64.9	131			
Sample ID:	LCS-63939	Batch ID: 63939				tCode: DI	RO by 8015	D			
Client ID:	LCSW	Batch	n ID: 639	939	F	RunNo: 8 2	2888				
Prep Date:	11/15/2021	Analysis D	ate: 11	/16/2021	5	SeqNo: 2	943440	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	0.44	0.10	0.5000	0	88.8	69.1	125			
Surr: DNOP		0.051		0.05000		102	64.9	131			
Sample ID:	LCSD-63939	SampT	ype: LC	SD	Tes	tCode: DI	RO by 8015	D			
Client ID:	LCSS02	Batch	n ID: 639	939	F	RunNo: 8 2	2888				
Prep Date:	11/15/2021	Analysis D	ate: 11	/16/2021	S	SeqNo: 2	943441	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	0.43	0.10	0.5000	0	85.8	69.1	125	3.42	20	
Surr: DNOP		0.048		0.05000		96.5	64.9	131	0	0	
Sample ID:	MB-63939	SampT	ype: ME	BLK	Tes	tCode: DI	RO by 8015	D			
Client ID:	PBW	Batch	n ID: 639	939	F	RunNo: 8 2	2888				
Prep Date:	11/15/2021	Analysis D	ate: 11	/16/2021	S	SeqNo: 2	943442	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	0.10								
Motor Oil Range	e Organics (MRO)	ND	0.50								
Surr: DNOP		0.10		0.1000		103	64.9	131			

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 interference
- 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#: 2111603 29-Nov-21

Client: Project:	EA Engin NMOCD	eering									
Sample ID:	2111603-001AMS	Samp	Гуре: М	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BG-1	Batc	h ID: 63	3901	F	RunNo: 82	2883				
Prep Date:	11/12/2021	Analysis [Date: 1	1/16/2021	S	SeqNo: 29	943502	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	48 5.1	10	49.90 4.990	0	96.3 102	39.3 70	155 130			
Sample ID:	2111603-001AMSE	Samp ⁻	Туре: М	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BG-1	Batc	h ID: 63	3901	F	RunNo: 82	2883				
Prep Date:	11/12/2021	Analysis [Date: 1	1/16/2021	S	SeqNo: 29	943503	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	44	9.3	46.51	0	95.6	39.3	155	7.75	23.4	
Surr: DNOP	DNOP 4.5 4.651					97.7	70	130	0	0	
Sample ID:	MB-63901	Samp	Туре: М	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batc	h ID: 63	3901	RunNo: 82883						
Prep Date:	11/12/2021	Analysis [Date: 1	1/16/2021	5	SeqNo: 29	943533	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Drganics (DRO)	ND	10								
Motor Oil Rang Surr: DNOP	e Organics (MRO)	ND 10	50	10.00		105	70	130			
Sample ID:	LCS-63901	Samp	Type: L	cs	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batc	h ID: 63	3901	F	RunNo: 82	2883				
Prep Date:	11/12/2021	Analysis [Date: 1	1/16/2021	S	SeqNo: 29	943542	Units: mg/ł	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	48	10	50.00	0	96.7	68.9	135			
Surr: DNOP		5.3		5.000		106	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 interference
- 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

Page 24 of 37

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client:	EA Engin	eering									
Project:	NMOCD										
Sample ID: MB-6	3878	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	9	
Client ID: PBW		Batc	h ID: 63	878	F	RunNo: 8	2831				
Prep Date: 11/1	1/2021	Analysis [Date: 11	1/15/2021	S	SeqNo: 2	942252	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	ND	1.0								
Motor Oil Range Orgar	nics (MRO)	ND	5.0								
Surr: DNOP		0.54		0.5000		109	64.8	167			
Sample ID: LCS-6	63878	Samp ⁻	Гуре: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	9	
Client ID: LCSV	v	Batc	h ID: 63	878	F	RunNo: 8	2831				
Prep Date: 11/1	1/2021	Analysis [Date: 1*	1/15/2021	Ş	SeqNo: 2	942253	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	2.1	1.0	2.500	0	83.6	73	138			
Surr: DNOP		0.24		0.2500		95.1	64.8	167			

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 interference
- 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#: 2111603 29-Nov-21

Client:	EA Engin	eering									
Project:	NMOCD										
Sample ID: mb-63	3972	SampT	ype: ME	BLK	Tes	tCode: G	RO by 8015	5D			
Client ID: PBW		Batch	1D: 63	972	F	RunNo: 8 2	2920				
Prep Date: 11/1	6/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	944115	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ Surr: BFB	nics (GRO)	ND 1000	5.0	1000		103	58.9	156			
Sample ID: Ics-63	3972	SampT	ype: LC	S	Tes	tCode: G	RO by 8015	D			
Client ID: LCSV	v	Batch	n ID: 63	972	F	RunNo: 8 2	2920				
Prep Date: 11/1	6/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	944116	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ	nics (GRO)	27	5.0	25.00	0	108	80	120			
Surr: BFB		1200		1000		119	58.9	156			
Sample ID: Icsd-6	63972	SampT	ype: LC	SD	Tes	tCode: G	RO by 8015	D			
Client ID: LCSS	602	Batch	n ID: 63	972	F	RunNo: 8 2	2920				
Prep Date: 11/1	6/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	944117	Units: wt%			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ	nics (GRO)	25	5.0	25.00	0	101	80	120	6.05	20	
Surr: BFB		1200		1000		120	58.9	156	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 interference
- 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

Page 26 of 37

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client:	EA Engine	eering										
Project:	NMOCD											
Sample ID: Ics-63	886	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS		Batch	h ID: 63	886	F	RunNo: 8	2818					
Prep Date: 11/11	1/2021	Analysis D	Date: 1	1/12/2021	S	SeqNo: 2	940171	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	26	5.0	25.00	0	105	78.6	131				
Surr: BFB		1200		1000		120	70	130				
Sample ID: mb-63	886	SampT	уре: М	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS		Batch	h ID: 63	886	F	RunNo: 8	2818					
Prep Date: 11/11	1/2021	Analysis D	Date: 1	1/12/2021	5	SeqNo: 2	940172	Units: mg/k	íg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	ND	5.0									
Surr: BFB		1000		1000		101	70	130				
Sample ID: mb-wa	ater	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: PBS		Batch	h ID: R8	32818	F	RunNo: 8	2818					
Prep Date:		Analysis D	Date: 1	1/12/2021	S	SeqNo: 2	940434	Units: mg/k	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	ND	5.0									
Surr: BFB		980		1000		98.2	70	130				
Sample ID: 2.5ug	gro lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS		Batch	h ID: R8	32818	F	RunNo: 8	2818					
Prep Date:		Analysis D	Date: 1	1/12/2021	S	SeqNo: 2	940435	Units: mg/k	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organi	ics (GRO)	25	5.0	25.00	0	101	78.6	131				
Surr: BFB		1100		1000		110	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 interference
- 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

EA Engineering

WO#: 2111603

Project: NMC	CD											
Sample ID: 2.5ug gro Ics	s Samp	Type: LC	s	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Bate	ch ID: R8	2818	F	RunNo: 8 2	2818						
Prep Date:	Analysis	Date: 11	1/12/2021	SeqNo: 2940169			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC) 0.50	0.050	0.5000	0	101	80	120					
Surr: BFB	22		20.00		110	68.5	136					
Sample ID: mb-water	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: PBW	Bate	ch ID: R8	2818	F	RunNo: 8 2	2818						
Prep Date:	Analysis	Date: 11	1/12/2021	5	SeqNo: 2	940170	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC) ND	0.050										
Surr: BFB	20		20.00		98.2	68.5	136					

Qualifiers:

Client:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 28 of 37

²⁹⁻Nov-21

Hall Environmental Analysis Laboratory, Inc.												
Client: EA Eng Project: NMOC	gineering D											
Sample ID: mb-63972	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBW	Batc	h ID: 63	972	F	RunNo: 8 2	2920						
Prep Date: 11/16/2021	Analysis E	Date: 11	1/17/2021	S	SeqNo: 2	944120	Units: mg/k	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	2.5					0					
Toluene	ND	2.5										
Ethylbenzene	ND	2.5										
Xylenes, Total	ND	5.0										
m,p-Xylene	ND	2.5										
o-Xylene	ND	2.5										
Surr: 4-Bromofluorobenzene	57		50.00		114	70	130					
Sample ID: Ics-63972	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	iles				
Client ID: LCSW	Batc	h ID: 63	972	RunNo: 82920								
Prep Date: 11/16/2021	Analysis E	Date: 11	1/17/2021	SeqNo: 2944121 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	53	2.5	50.00	0	106	80	120					
Toluene	57	2.5	50.00	0	113	80	120					
Ethylbenzene	53	2.5	50.00	0	106	80	120					
Xylenes, Total	160	5.0	150.0	0	108	80	120					
Surr: 4-Bromofluorobenzene	57		50.00		114	70	130					
Sample ID: Icsd-63972	SampT	Гуре: LC	SD	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: LCSS02	Batc	h ID: 63	972	F	RunNo: 8 2	2920						
Prep Date: 11/16/2021	Analysis D	Date: 11	1/17/2021	5	SeqNo: 2	944122	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	53	2.5	50.00	0	106	80	120	0.379	20			
Toluene	52	2.5	50.00	0	104	80	120	8.22	20			
Ethylbenzene	52	2.5	50.00	0	104	80	120	1.45	20			
Xylenes, Total	160	5.0	150.0	0	107	80	120	0.716	20			
Surr: 4-Bromofluorobenzene	58		50.00		116	70	130	0	0			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S

QC SUMMARY REPORT

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

Page 29 of 37

Client: Project:	EA Engir NMOCD	neering									
Sample ID:	lcs-63886	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 63	886	F	RunNo: 8 2	2818				
Prep Date:	11/11/2021	Analysis [Date: 11	1/12/2021	Ş	SeqNo: 2	940223	Units: mg/Kg			
Analyte		Recult		SPK value	SPK Rof Val	% REC	Low/ imit	Highl imit	~ %PPD	PPDI imit	Qual
Benzene		1.1	0.025	1.000		107	80	120	70111 D		Quai
Toluene		1.1	0.050	1.000	0	109	80	120			
Ethylbenzene		1.1	0.050	1.000	0	106	80	120			
Xvlenes. Total		3.3	0.10	3.000	0	108	80	120			
Surr: 4-Brom	nofluorobenzene	1.1		1.000	-	113	70	130			
Sample ID:	mb-63886	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 63	886	F	RunNo: 8 2	2818				
Prep Date:	11/11/2021	Analysis [Date: 11	1/12/2021	S	SeqNo: 2	940224	Units: mg/k	۲g		
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-Brom	nofluorobenzene	1.1		1.000		112	70	130			
Sample ID:	2111603-001ams	Samp	Type: MS	6	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BG-1	Batc	h ID: 63	886	F	RunNo: 8 2	2818				
Prep Date:	11/11/2021	Analysis I	Date: 1'	1/12/2021	S	SeqNo: 2	940227	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.024	0.9747	0	112	80	120			
Toluene		1.0	0.049	0.9747	0	103	80	120			
Ethylbenzene		1.1	0.049	0.9747	0	112	80	120			
Xylenes, Total		3.3	0.097	2.924	0	112	80	120			
Surr: 4-Brom	nofluorobenzene	0.96		0.9747		98.6	70	130			
Sample ID:	2111603-001amsd	Samp	Type: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BG-1	Batc	h ID: 63	886	F	RunNo: 8 2	2818				
Prep Date:	11/11/2021	Analysis [Date: 1	1/12/2021	S	SeqNo: 2	940228	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.024	0.9497	0	113	80	120	1.61	20	
Toluene		1.1	0.047	0.9497	0	112	80	120	5.64	20	
Ethylbenzene		1.1	0.047	0.9497	0	116	80	120	0.525	20	
Xylenes, Total		3.3	0.095	2.849	0	117	80	120	1.65	20	
Surr: 4-Brom	nofluorobenzene	0.99		0.9497		104	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 interference

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

- 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#: 2111603 29-Nov-21

Client: Project: EA Engineering NMOCD

1										
Sample ID: 100ng btex Ics	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: R8	2818	R	RunNo: 82818					
Prep Date:	Analysis [Date: 11	/12/2021	S	SeqNo: 2940436			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			
Sample ID: mb-water	Samp	Гуре: МЕ	BLK	Tes	tCode: EF					
Client ID: BBS	_			RunNo: 82818						
	Batc	h ID: R8	2818	R	tunNo: 82	2818				
Prep Date:	Batc Analysis [h ID: R8 Date: 1 1	2818 /12/2021	R	tunNo: 8 2 SeqNo: 2 9	2818 940437	Units: mg/K	g		
Prep Date: Analyte	Batc Analysis [Result	h ID: R8 Date: 1 1 PQL	2818 /12/2021 SPK value	R S SPK Ref Val	2unNo: 82 SeqNo: 29 %REC	2818 940437 LowLimit	Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: Analyte Benzene	Batc Analysis [Result ND	h ID: R8 Date: 11 <u>PQL</u> 0.025	2818 /12/2021 SPK value	R S SPK Ref Val	2unNo: 82 SeqNo: 29 %REC	2818 940437 LowLimit	Units: mg/K HighLimit	′g %RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene	Batc Analysis I Result ND ND	h ID: R8 Date: 1 1 <u>PQL</u> 0.025 0.050	2818 /12/2021 SPK value	R S SPK Ref Val	2unNo: 8 2 SeqNo: 2 9 %REC	2818 940437 LowLimit	Units: mg/K HighLimit	G %RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene	Batc Analysis I Result ND ND ND	h ID: R8 Date: 11 <u>PQL</u> 0.025 0.050 0.050	2818 /12/2021 SPK value	R SPK Ref Val	2unNo: 82 SeqNo: 29 %REC	2818 940437 LowLimit	Units: mg/K HighLimit	ég %RPD	RPDLimit	Qual
Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batc Analysis I Result ND ND ND ND	h ID: R8 Date: 1 1 <u>PQL</u> 0.025 0.050 0.050 0.10	2818 /12/2021 SPK value	R S SPK Ref Val	8unNo: 8 SeqNo: 2 %REC	2818 940437 LowLimit	Units: mg/K HighLimit	íg %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
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- 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

Page 31 of 37

Hall Environmental Analysis Laboratory, Inc.												
Client: EA Eng Project: NMOC	rineering D											
Sample ID: 100ng btex Ics	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: LCSW	Batc	h ID: R8	2818	F								
Prep Date:	Analysis [Date: 11	1/12/2021	S	SeqNo: 2	940216	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	21	1.0	20.00	0	105	80	120					
Toluene	20	1.0	20.00	0	97.5	80	120					
Ethylbenzene	21	1.0	20.00	0	104	80	120					
Xylenes, Total	63	2.0	60.00	0	106	80	120					
1,2,4-Trimethylbenzene	21	1.0	20.00	0	106	80	120					
1,3,5-Trimethylbenzene	20	1.0	20.00	0	102	80	120					
Surr: 4-Bromofluorobenzene	22		20.00		108	70	130					
Sample ID: mb-water	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBW	Batc	h ID: R8	2818	F	RunNo: 8	2818						
Prep Date:	Analysis [Date: 11	1/12/2021	S	SeqNo: 2	940217	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	1.0										
Toluene	ND	1.0										
Ethylbenzene	ND	1.0										
Xylenes, Total	ND	2.0										
1,2,4-Trimethylbenzene	ND	1.0										
1,3,5-Trimethylbenzene	ND	1.0										
Surr: 4-Bromofluorobenzene	22		20.00		109	70	130					

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S

QC SUMMARY REPORT

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Limit

Page 32 of 37

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client: Project:	EA Engin NMOCD	eering									
Sample ID:	MB-63999	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	7471B: Merc	ury		
Client ID:	PBS	Batch I	D: 63	999	F	RunNo: 8 2	2916				
Prep Date:	11/17/2021	Analysis Da	te: 11	1/17/2021	S	SeqNo: 2	944019	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.033								
Sample ID:	LCSLL-63999	SampTy	pe: LC	SLL	Tes	tCode: El	PA Method	7471B: Merc	ury		
Client ID:	BatchQC	Batch I	D: 63	999	F	RunNo: 8 2	2916				
Prep Date:	11/17/2021	Analysis Da	te: 1 1	1/17/2021	S	SeqNo: 2	944020	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.033	0.006660	0	70.2	70	130			
Sample ID:	LCS-63999	SampTy	pe: LC	s	Tes	tCode: El	PA Method	7471B: Merc	ury		
Client ID:	LCSS	Batch I	D: 63	999	F	RunNo: 8 2	2916				
Prep Date:	11/17/2021	Analysis Da	te: 1 1	1/17/2021	S	SeqNo: 2	944021	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.16	0.033	0.1667	0	95.6	80	120			
Sample ID:	2111603-001AMS	SampTy	oe: MS	3	Tes	tCode: El	PA Method	7471B: Merc	ury		
Client ID:	BG-1	Batch I	D: 63	999	F	RunNo: 8 2	2916				
Prep Date:	11/17/2021	Analysis Da	te: 11	1/17/2021	S	SeqNo: 2	944023	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.16	0.033	0.1668	0	97.0	80	120			
Sample ID:	2111603-001AMS) SampTy	oe: MS	SD	Tes	tCode: El	PA Method	7471B: Merc	ury		
Client ID:	BG-1	Batch I	D: 63	999	F	RunNo: 8 2	2916				
Prep Date:	11/17/2021	Analysis Da	te: 11	1/17/2021	S	SeqNo: 2	944024	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.16	0.033	0.1662	0	99.2	80	120	1.83	20	

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 33 of 37

WO#: 2111603

Client:	EA Engin	eering									
Project:	NMOCD										
Sample ID:	MB-64017	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	7470A: Mercu	ıry		
Client ID:	PBW	Batc	h ID: 64	017	F	unNo: 8	2945				
Prep Date:	11/18/2021	Analysis I	Date: 11	1/18/2021	S	eqNo: 2	945202	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.00020								
Sample ID:	LCSLL-64017	Samp	Type: LC	SLL	Tes	tCode: El	PA Method	7470A: Mercu	ıry		
Client ID:	BatchQC	Batc	h ID: 64	017	F	unNo: 8	2945				
Prep Date:	11/18/2021	Analysis I	Date: 11	1/18/2021	S	eqNo: 2	945203	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		ND	0.00020	0.0001500	0	95.4	50	150			
Sample ID:	LCS-64017	Samp	Type: LC	s	Tes	tCode: El	PA Method	7470A: Mercu	ıry		
Client ID:	LCSW	Bato	h ID: 64	017	F	lunNo: 8	2945				
Prep Date:	11/18/2021	Analysis I	Date: 11	1/18/2021	S	eqNo: 2	945204	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		0.0050	0.00020	0.005000	0	101	85	115			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 34 of 37

²⁹⁻Nov-21

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client: Project:	EA Engin NMOCD	eering														
Sample ID:	MB-63898	SampT	ype: MB	BLK	Tes	tCode: El	PA Method	6010B: Soil I	Vetals							
Client ID:	PBS	Batch	n ID: 63	898	F	RunNo: 8	2896									
Prep Date:	11/11/2021	Analysis D	ate: 11	1/16/2021	S	SeqNo: 2	943602	Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Arsenic Barium Cadmium		ND ND ND	5.0 0.10 0.10													
Sample ID:	LCS-63898	SampT	ype: LC	S	TestCode: EPA Method 6010B: Soil Metals											
Client ID:	LCSS	Batch	n ID: 63	898	F	RunNo: 8 2	2896									
Prep Date:	11/11/2021	Analysis D	ate: 1	1/16/2021	S	SeqNo: 2	943604	Units: mg/K	g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Arsenic Barium Cadmium		23 25 25	5.0 0.10 0.10	25.00 25.00 25.00	0 0 0	92.1 99.3 98.6	80 80 80	120 120 120								
Sample ID:	MB-63898	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	6010B: Soil I	Vetals							
Client ID:	PBS	Batch	n ID: 63	898	RunNo: 82942											
Prep Date:	11/11/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	945037	Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Lead		ND	1.0													
Sample ID:	LCS-63898	SampT	ype: LC	s	TestCode: EPA Method 6010B: Soil Metals											
Client ID:	LCSS	Batch	n ID: 63	898	F	RunNo: 8 2										
Prep Date:	11/11/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	945039	Units: mg/K	g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Lead		25	1.0	25.00	0	101	80	120								
Sample ID:	2111603-019AMS	SampT	ype: M \$	6	Tes	tCode: El	PA Method	6010B: Soil I	Vetals							
Client ID:	BG-2	Batch	n ID: 63	898	F	RunNo: 8 2										
Prep Date:	11/11/2021	Analysis D	ate: 11	1/17/2021	S	SeqNo: 2	945115	Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Arsenic		22	4.9	24.42	0	91.3	75	125								
Cadmium		21 0.098 24.4			0	86.8	75	125								
Lead		23	0.98	24.42	2.530	84.5	75	125								

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 interference
- 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

Page 35 of 37

WO#: 2111603 29-Nov-21

Client: EA Engineering Project: NMOCD

Sample ID: 2111603-019AMSE	Samp1	Гуре: МS	D	TestCode: EPA Method 6010B: Soil Metals											
Client ID: BG-2	Batcl	h ID: 638	898	F	RunNo: 8	2942									
Prep Date: 11/11/2021	Analysis D	Date: 11	/17/2021	S	SeqNo: 2	945116	Units: mg/H	٤g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Arsenic	23	4.9	24.46	0	93.3	75	125	2.39	20						
Cadmium	21	0.098	24.46	0	86.2	75	125	0.519	20						
Lead	23	0.98	24.46	2.530	82.5	75	125	1.99	20						
Sample ID: 2111603-019AMS	SampT	Гуре: МS	5	TestCode: EPA Method 6010B: Soil Metals											
Client ID: BG-2	Batcl	h ID: 638	898	F											
Prep Date: 11/11/2021	Analysis D	Date: 11	/18/2021	S	SeqNo: 2	946696	Units: mg/k	٤g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Barium	130	0.098	24.42	90.56	154	75	125			S					
Sample ID: 2111603-019AMSE	Samp1	Гуре: МS	D	Tes	tCode: El	PA Method	6010B: Soil	Metals							
Client ID: BG-2	Batcl	h ID: 638	398	F	RunNo: 8	2987									
Prep Date: 11/11/2021	Analysis D	Date: 11	/18/2021	S	SeqNo: 2	946697	(g								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Barium	130	0.098	24.46	90.56	141	75	125	2.36	20	S					

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 interference
- 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

Page 36 of 37

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2111603 29-Nov-21

Client:	EA Eng	gineering															
Project:	NMOC	.D															
Sample ID:	MB-63941	Samp	Туре: МЕ	BLK	TestCode: EPA 6010B: Total Recoverable Metals												
Client ID:	PBW	Batc	h ID: 63	941	RunNo: 82894												
Prep Date:	11/15/2021	Analysis I	Date: 11	/16/2021	S	SeqNo: 29	943536	Units: mg/L									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Arsenic		ND	0.030														
Barium		ND	0.0020														
Cadmium		ND	0.0020														
Lead		ND	0.020														
Sample ID:	LCS-63941	Samp	Type: LC	S	TestCode: EPA 6010B: Total Recoverable Metals												
Client ID:	LCSW	Batc	h ID: 63	941	F	RunNo: 8 2	2894										
Prep Date:	11/15/2021	Analysis I	Date: 11	/16/2021	S	SeqNo: 29	943538	Units: mg/L									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Arsenic		0.49	0.030	0.5000	0	97.7	80	120									
Barium		0.46	0.0020	0.5000	0	91.7	80	120									
Cadmium		0.46	0.0020	0.5000	0	91.5	80	120									
Lead		0.46	0.020	0.5000	0	92.7	80	120									

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 interference
- 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

Page 37 of 37

HALL ENVII ANAL LABO	RONMEN YSIS RATORY	TAL	F 7	Hall Environi FEL: 505-345 Website: clie	nental Analysis 4901 1 Albuquerque 5-3975 FAX: 50 ents.hallenviron	Laboratory Hawkins NE , NM 87109 15-345-4107 mental.com	mple Log-In Check List						
Client Name:	EA Engin	eering	Wo	rk Order Nu	mber: 21116(03		RcptNo: 1					
Received By:	Cheyen	ne Cason	11/11	/2021 11:40):00 AM	Ch	l						
Completed By:	Sean Liv	vingston	11/11/	/2021 12:16	29 PM	<	5 /	/ ,					
Reviewed By:	JAN	11/21				-)~~~	njot-					
Chain of Cus	stody												
1. Is Chain of C	ustody com	plete?			Yes 🔽	P 1	10 🗌	Not Present					
2. How was the	sample del	ivered?			<u>Client</u>								
Log In													
3. Was an atten	npt made to	cool the sam	oles?		Yes 🔽] N	lo 🗌	NA 🗌					
4. Were all sam	oles receive	d at a tempera	ature of >0° C	to 6.0°C	Yes 🗸] N	lo 🗌						
5. Sample(s) in	proper cont	ainer(s)?			Yes 🔽] N	o 🗌						
6. Sufficient sam	ple volume	for indicated t	est(s)?		Voc.	N							
7. Are samples (except VOA	and ONG) pr	operly presen	ved?	Voc M	N							
8. Was preserva	tive added t	o bottles?			Yes	No		NA 🗌					
9. Received at le	ast 1 vial wi	th headspace	<1/4" for AQ 1	VOA?	Yes 🗸	No							
10. Were any sam	nple contain	ers received b	oroken?		Yes 🗌	N	• 🗸						
11. Does paperwo	rk match bo	ttle labels?			Yes 🖌	No		# of preserved bottles checked for pH:					
(Note discrepa	ncies on ch	ain of custody	') 					(<2) or >12 u	nless noted)				
13 Is it clear what	analyses w	itified on Chai	n of Custody?		Yes 🗹	No		Adjusted?					
14. Were all holdin	analyses w	e to be met?	1		Yes 🗹	No			1.1				
(If no, notify cu	stomer for a	authorization.)			Yes ⊻	No		Checked by: Sk	111121				
<u>Special Handli</u>	ng (if app	olicable)											
15. Was client not	ified of all d	iscrepancies v	vith this order'	?	Yes 🗌	No		NA 🗹					
Person N	Notified:	J		Date	:		ininational						
By Whor	n:			Via:	eMail	Phone	Fax	In Person					
Regardir	ng:	[ne a shali Santa						
Client In:	structions:						The Residence Instance						
16. Additional rem	narks:								L				
17. Cooler Inform	nation	1 2 3							5				
Looler No	I emp °C	Condition	Seal Intact	Seal No	Seal Date	Signed	Ву		2				
2	1.4	Good				The second secon			5				
Commence and an and an and an and	L			I					5				

	HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	21) SO₄ SO₄		0,12 			MTI 5D(31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 31100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 3100 31000 31000 3100000000		808 808 3250 3250 3250 3250 3250 3250 3250 3250															prase email results to:	MMCVEY @ EREST. CON	sibility. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time:	Candard Knut SII	Project Name:	NMOCD	Project #:	6375601	Project Manager	M. L. M. V.	Inner miever	Sampler: J. Mesenge	On Ice: 🛛 Yes 🗆 No	# of Coolers: 2 19-0-1.9	Cooler Temp(including cF): . 4 - 6 2 1, 4 (°C)	Container Preservative HEAL No.	Type and # Type 2111 603	LX 402 jars NONE COI	200 / /			100	SCO N Plastic KX W4 W100	SUM AMBER 100 MI Plastic HCI 000 X	× 102 Jars NUONE OGA	2 2 2 COS	Opin Ampler 100 m / Dressic Act	X ONON ZNON SNG 20/ X		× × 012	sceived by: Via: Date Time Re	11/1 COO 11/11/21 1140	cerved by: Via: Date Time	acted to other accredited laboratories. This serves as notice of this pos
Chain-of-Custody Record	Client: EA Engineering		Mailing Address: 320 64 Ave. 5W Ste. 130	ABO, NM	Phone #: 505 - 235 - 9037	email or Fax#: MMCVEY@ EAEST, COM	QA/QC Package:	Standard Level 4 (Full Validation)	Accreditation:		- rud (1)pe)		Date Time Matrix Samulo Nomo	Wahn had 211101 Vame	1 - 99 1100 heal 17/000	1107 / 55-1	1120 55-2	1132 55-4	1145 4 55-3	1203 00:1 autility < - 50	1210 5.1 00 5	1220 C 1 CC 1	12 10 10 10 00 10	100 La La Si La Si	a cc 100 caci	V 1122 (25 12	■ 1455 V Date: Time: Relinquished hvr	11-11-21 1125 Messenger	Date: Time: Relinquished by:		If necessary, samples submitted to Hall Environmental may be subcontr

		ANALTSIS LABORATORY	www.hallenvironmental.com	Tol FOF 31F 307F	rei: 000-04-0-39/0 Fax 500-345-410/ Analysis Request)	CG V ²	200 ² , F 10 10 22, F 11 22 22, F	×16 10 10 10 10 10 10 10 10 10 10		estic letho 3 Me 3 Me 3 Me 3 Me 2 Me 2 0 0 0	3081 P 2016 (N 2016 (N 2016 (V 2010 (S 2016 (V 2010 (S 2016 (V 2010 (S 2010 (V 2010 (S 2010 (V 2010 (S 2010 (V 2010 (S 2010 (S						XX						si please email results to:	MMCVEY @ EAEST. COM	
			4	· ·		()	1208) a	NB'	ழ 1 /	ев ВЕ)D21	X TEX	$\langle \rangle$		$\langle \rangle$	\Diamond	$\langle \rangle$	X	\times	$\frac{\times}{\times}$	\times			Remarks		
	ush 5-7 days			1.12	2601		Ver	enger	ON D	610	4-0-1,4 (°C)	ve HEAL No.	CO	2	5 6	65	5	613	018	019	021		i	Date Time F	Date Time	riae This serves as notice of this a
Time:	K RI		0	121	100	jer:	Mc	T. Mess	M Yes	1.9-0	Icluding CF)	^o reservati [,] Γype	NONE	-		-	-	1		>	HCI		16	EN C	Via:	edited Jahorato
Turn-Around	□ Standard	Project Name	NM OCI	Project #:		Project Mana	Mike	Sampler:	On Ice:	# of Coolers:	Cooler Temp(Container Type and #	2x 402 jars							\rightarrow	ZX VOA		Dominad hur	Art /	Received by:	ntracted to other accr
Custody Record	heering	0	5 Gold Are. SW Ste. 1300	UNN .	235-9037	CVEY @ EREST. COM	Level 4 (Full Validation)	Compliance	her			Sample Name	SS-//	55-12	55-13	H-SS	51-15	11 33	37-18	66-6	78-1		abed hv.	J. Messerger	shed by:	L ubmitted to Hall Environmental may be subco
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ibility. Any sub-contracted data will be clearly notated on the analytical report. Sod