Variance Request

Double L Queen Tank Battery

Incident # NAPM2303746352
Unit P, Section 36, T14S, R29E
Chaves County, New Mexico
February 28, 2024

Ashley Maxwell
Environmental Specialist
EMNRD-NMOCD
1000 Rio Brazos Road
Aztec, NM 87110
Phone: (505) 635-5000
E-mail: ashley.maxwell@emnrd.nm.gov

envirotech

Practical Solutions for a Better Tomorrow
Arizona • Colorado • New Mexico • Texas • Utah

Table of Contents

New Mexico Oil Conservation Division
Double L Queen Tank Battery
Variance Request
Incident # NAPM2303746352
Unit P, Section 36, T14S, R29E
Chaves County, New Mexico

Page Left Intentionally Blank

Location

The subject site is identified as the Double L Queen Tank Battery and is located within Unit P, Section 26, Township 14 South, Range 29 East, Chaves County, New Mexico. The site location is further described as being located at latitude 33.05539, and longitude -103.975098.

Background

The subject site is an abandoned facility formerly operated by Canyon E&P. New Mexico Oil Conservation Division (NMOCD) took control over the site under the Orphan Well Program, and has contracted Envirotech, Inc. to complete a facility inventory, site characterization, and spill delineation, complete site demolition and site remediation activities.

Soil

Based on information provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS) Web Soil Survey, the predominant soil at the site is Tencee-Sotim association. The parent material is calcareous alluvium and/or eolian deposits derived from sedimentary rock. Depth to a restrictive, petrocalcic feature is reported to be 7 to 20 inches. The location is not within an area of high karst occurrence.

Ground Water

On March 27th and 28th 2023, Envirotech and its drilling subcontractor completed an exploratory boring to a depth of fifty-two (52) feet Below Ground Surface (BGS). The boring was completed with a 2" PVC casing with 10 feet of screen at the bottom of the boring. The casing was left in place for a minimum of 72 hours. On April 2, 2023, the well was checked for the presence of water with a water level meter. The borehole was determined to be dry at 52 feet indicating that groundwater is deeper than fifty (50) feet at the subject site.

Regulatory Standards

The following reclamation standards provided are based on *19.15.29.13 NMAC*:

Constituent	Method	Limit
Chloride	EPA 300.0	600 mg/kg
Total Petroleum Hydrocarbons (TPH)	EPA Method 8015D	100 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8021B	50 mg/kg
Benzene	EPA Method 8021B	10 mg/kg

Since drilling activities confirmed depth to groundwater is greater than fifty (50) feet BGS the standards for Groundwater greater than 50 feet will be used per *19.15.29.13 NMAC*:

Constituent	Method	Limit
Chloride	EPA 300.0	10,000 mg/kg
Total Petroleum Hydrocarbons (GRO, DRO, & ORO)	EPA Method 8015D	2,500 mg/kg
Total Petroleum Hydrocarbons (GRO, DRO)	EPA Method 8015D	1,000 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8021B	50 mg/kg
Benzene	EPA Method 8021B	10 mg/kg

Variance Request

On behalf of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (OCD) and pursuant to 19.15.29.12 and 19.15.29.13 NMAC, Envirotech, Inc (Envirotech) is requesting a variance for chloride levels for the Canyon Exploration and Production Double L Queen Tank Battery (Double L Queen). This variance is requested to enable site reclamation in compliance with the greater than six hundred (600) parts per million (ppm) chloride concentrations in the top four feet of soil closure criteria provided in Table 1 of 19.15.29.12 and listed in 19.15.29.13D(1) NMAC. The highest chloride concentration requested to be left in place is 4,292 ppm for a four (4) foot wall composite sample based on field screening results. The north wall, south wall, and portions of the west wall of the excavation are currently exceeding 600 mg/kg of chlorides in the upper four feet; **see Figure 1, Test Hole Map**.

Field screening was completed to determine the extent of the chloride impacts. Delineation activities were conducted by completing test holes at 25-foot intervals; **see Figure 1: Test Hole Map**. Envirotech's field tech dug a test hole every twenty-five (25) feet to the north, south and west of the excavation wall. Field samples were tested and were within the 600-ppm limit, confirmation samples were then collected and evaluated in the laboratory; **see Appendix A: Analytical Results**. To the north of the excavation the contamination area extends approximately seventy-five (75) feet from the north wall on the west side to approximately 200 feet from the existing wall on the east end. The southern end of the elevated chloride area spans 50-75 feet from the wall on the west and east ends and expands out to approximately 125 feet from the excavation in the center; **see Table 1, Summary of Test Hole Results**.

The amount of soil that has been excavated and removed from the subject site is approximately 44,060 cubic yards with a surface area of approximately 156,420 square feet, this amounts to over three and a half (3.5) acres of remediated area. The northern area of elevated chlorides is approximately 32,800 square feet of surface area which calculates to approximately 4,860 cubic

yards of elevated chloride soil. The southern area is approximately 20,100 square feet of surface area which calculates to approximately 2,980 cubic yards of elevated chloride soil; **see Figure 1: Test Hole Map**.

Further sampling of chlorides and its relation to depth has allowed Envirotech to determine that chloride concentrations increase as depth increases, ***see Figure 4, Chloride Map***. In Table 1 the samples labeled N. Wall 2 @1', N. Wall 2 @2', N. Wall 2 @3', and N. Wall 2 @4' show the distribution of chlorides with depth. Concentration increase with depth with the samples at the one (1) foot at 970 mg/kg and the sample at four (4) feet was 4,000 mg/kg. This shows that the higher chlorides that would be detrimental to plant health is well below the root zone. With plant root depth being relatively shallow in the subject area, it is fair to conclude that low chloride concentrations at shallow depths are not affecting vegetation health. These results along with the newly established soil and vegetation, indicate that it would be more detrimental to remove unstressed, mature soil and vegetation, and removal would ultimately increase harm to the ecosystem. Envirotech drilled 50 feet below ground surface (bgs) during initial site assessment activities in efforts to determine groundwater. From one (1) to five (5) foot the organic layer consists of medium to fine sand. From five (5) to ten (10) feet the topsoil layer consists of medium to fine sand with pea gravel and sandstone. From ten (10) to fifteen (15) feet the eluviation layer consists of bentonite clay and sand. From fifteen (15) to twenty-five (25) feet the subsoil layer consists of bentonite clay and limestone. From twenty-five (25) to fifty (50) feet the parent rock layer consists of bentonite clay with blue and green shale. Being that groundwater is greater than 50 feet bgs, it Is believed that chloride levels are not a detriment to human or environmental health.

Landsat 8 Normalized Difference Vegetation Index (NDVI) is used to quantify vegetation greenness and is useful in understanding vegetation density and assessing changes in vegetative health. NDVI Landsat 8 imagery was accessed to determine the overall health of the soil and vegetation residing within our subject area, as well as surrounding areas. This allows us to compare surrounding soil and vegetation health to our subject area soil and vegetation health from the beginning of the project to the end of the project. Furthermore, helping us to illustrate what areas of concern may still occur, and which areas have since made progress.

Imagery taken from November of 2023, ***see Figure 2, NDVI 11/27/2023*** was compared to the same imagery taken in December of 2022, ***see Figure 3, NDVI 12/1/2022***. The imagery demonstrates the overall increase of soil and vegetative health within the subject area and surrounding areas due to the remediation efforts of Envirotech Inc., and New Mexico Oil Conservation Division (NMOCD). Particularly looking at points A and B of comparison on the maps, from 2022 to 2023, shows the natural regenerative health of soil and vegetation within these areas are occurring. Points A and B of comparison also demonstrate that soil and vegetative health is equivalent greenness to surrounding undisturbed areas that do not possess elevated levels of chlorides. These particular areas have demonstrated increased health when compared to equally healthy and undisturbed surrounding areas.

Demonstration of Protection Provided by Variance

Pursuant to 19.15.29.12 and 19.15.29.13D(1) NMAC, the variance will provide equal or greater protection of health for soil, vegetation, and the environment. Elevated chloride areas contain well established and thriving native vegetation and soil that have not been affected by the existing chloride levels. South of the excavation exhibits no vegetation change from the contaminated region compared to the east of the excavation; see **Appendix 2B Photo 7**. Similarly, the northern extent shows similar vegetation growth when compared to the east side of the excavation; **see Appendix B, Photo 8**. With groundwater greater than 50 feet bgs, Envirotech has also determined that groundwater has not been impacted by elevated chloride levels. The newly established vegetation is also a determining factor that soil health is not being affected by elevated chloride levels. Therefore, all these factors indicate that elevated chloride areas are not a detriment to the new vegetation, soil, groundwater, or the environment.

Statement of Limitations

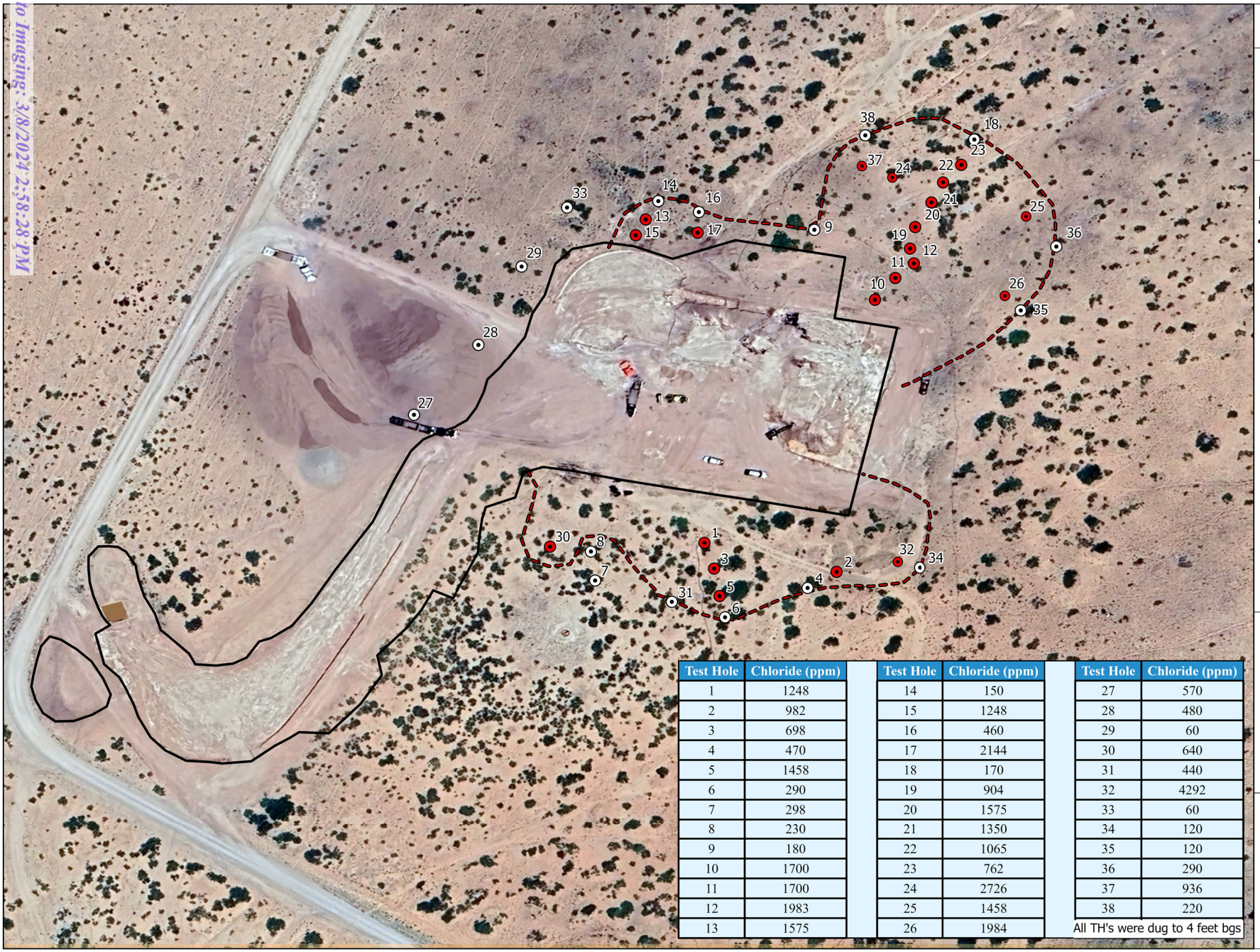
The work and services provided were in accordance with NMOCD standards. All observations and conclusions provided here are based on the information and current site conditions found at the subject site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.

Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

Figures



Test Hole	Chloride (ppm)	Test Hole	Chloride (ppm)	Test Hole	Chloride (ppm)
1	1248	14	150	27	570
2	982	15	1248	28	480
3	698	16	460	29	60
4	470	17	2144	30	640
5	1458	18	170	31	440
6	290	19	904	32	4292
7	298	20	1575	33	60
8	230	21	1350	34	120
9	180	22	1065	35	120
10	1700	23	762	36	290
11	1700	24	2726	37	936
12	1983	25	1458	38	220
13	1575	26	1984	All TH's were dug to 4 feet bgs	

Figure 1: Test Hole Ma

NM OCD
Double L. Queen Tank Battery
Section 36, Township 14S, Range 29E
Chaves County, New Mexico
33.05539, -103.975098
Project #23002-0004

Legend

- Excavation
- Northern Extent Elevated Chlori
- Southern Extent Elevated Chlori
- CLean Test Holes
- Dirty Test Holes

1:1,200
0 45 90 180 Feet

N

envirotech
Environmental Scientists and Engineers
5796 U.S Highway 64
Farmington, New Mexico 87401
505.632.0615
Date Drawn: 2/27/2024
Drawn by: D. Aragon

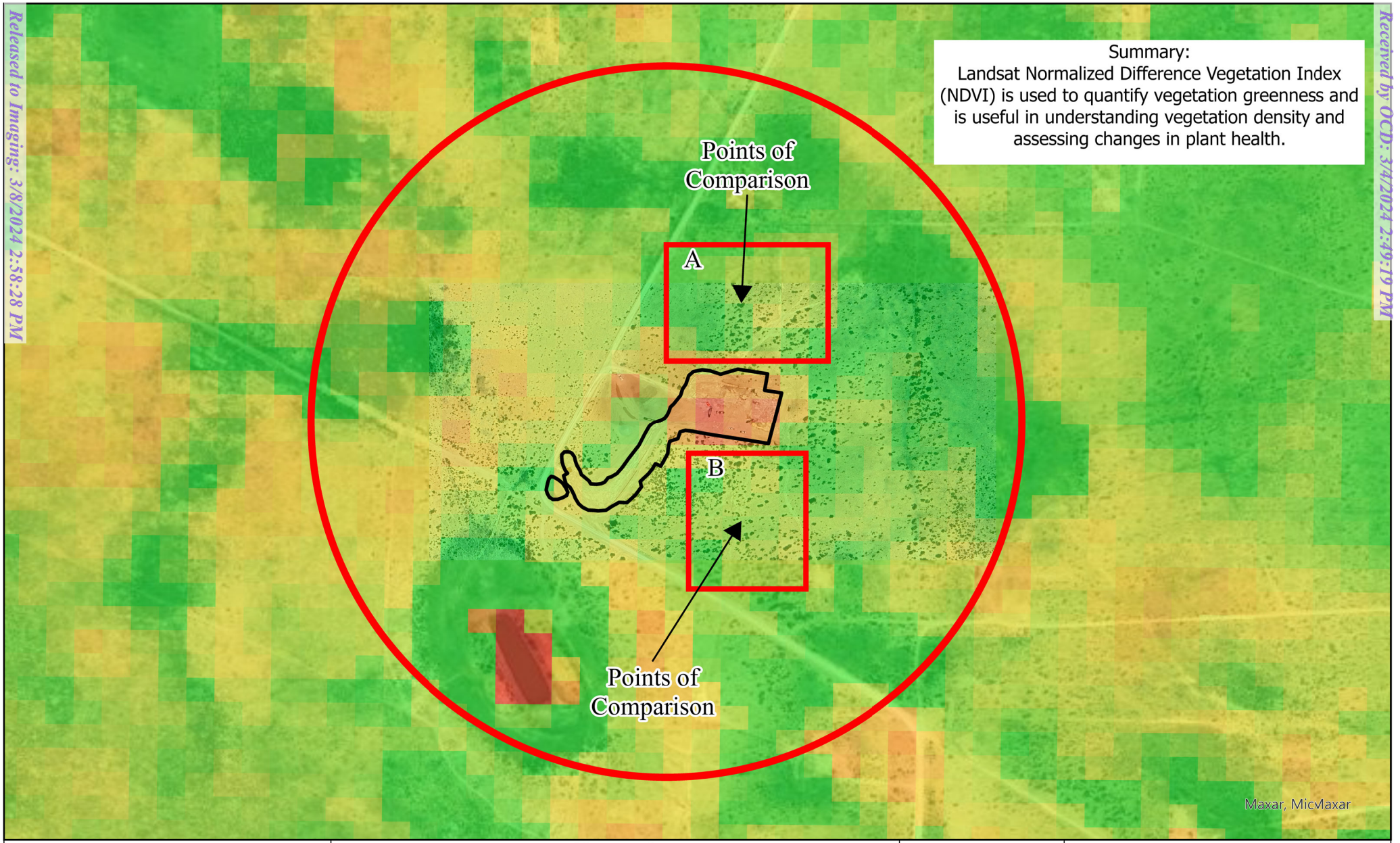


Figure 2, NDVI 11/27/2023

NM OCD
Double L. Queen Tank Battery
Section 36, Township 14S, Range 29E
Chaves County, New Mexico
33.05539, -103.975098
Project #23002-0004

Legend

Excavation

NDVI 11/27/23

Value

0.11

0.08

1:6,500

0 500 1,000 2,000 Feet

N

envirotech

Environmental Scientists and Engineers
5796 U.S Highway 64
Farmington, New Mexico 87401
505.632.0615
Date Drawn: 02/27/2024
Drawn by: P. Mesa

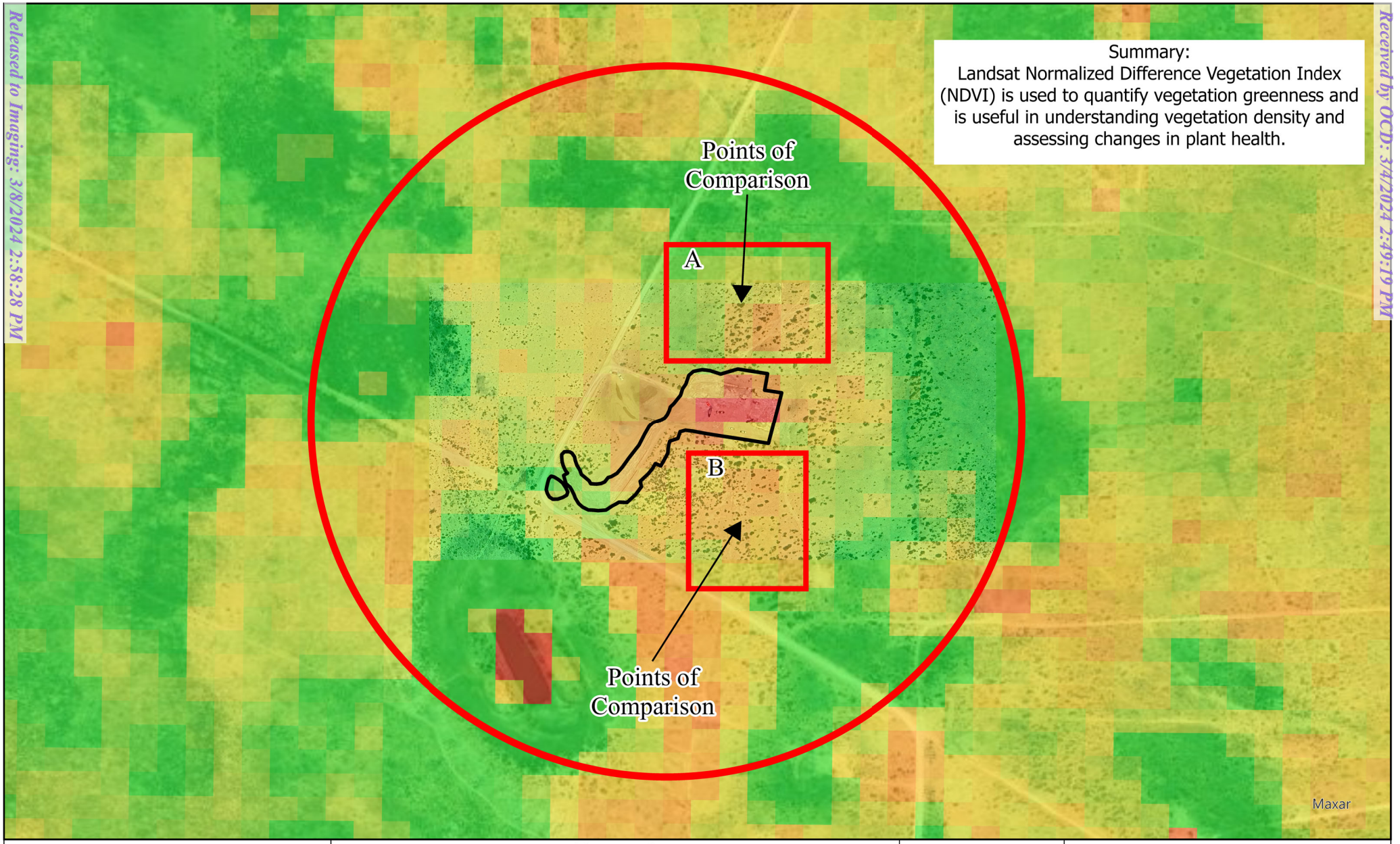


Figure 3, NDVI 12/01/2022

NM OCD
Double L. Queen Tank Battery
Section 36, Township 14S, Range 29E
Chaves County, New Mexico
33.05539, -103.975098
Project #23002-0004

Legend

Excavation

NDVI 12/1/22

Value

0.11

0.08

1:6,500

0 500 1,000 2,000 Feet

N

envirotech
Environmental Scientists and Engineers
5796 U.S Highway 64
Farmington, New Mexico 87401
505.632.0615

Date Drawn: 02/27/2024
Drawn by: P. Mesa

Figure 4: Chloride Map

NM OCD
Double L. Queen Tank Battery
Section 36, Township 14S, Range 29E
Chaves County, New Mexico
33.05539, -103.975098
Project #23002-0004

Legend

Chlorides

Test Hole
- Clean
- Dirty
- Test Holes

Excavation

Northern Extent Elevated Chlorides

Southern Extent Elevated Chlorides

1:1,250

0 50 100 200 Feet

envirotech
Environmental Scientists and Engineers
5796 U.S Highway 64
Farmington, New Mexico 87401
505.632.0615

Date Drawn: 02/06/2023
Drawn by: P. Mesa

Tables

Table 1, Summary of Test Hole Results

Date	Sample Name	Map Notation	Field Readings	Lab Confirmation Results mg/kg							
			Chloride	GRO	DRO	Total GRO + DRO	MRO	Total TPH	Benzene	Total BTEX	Chloride
11/13/2023	NPSW100@50'	100S @ 50'	982	-	-	-	-	-	-	-	-
11/13/2023	NPSW100@75'	100S @ 75'	426	<4.7	<9.4	<14.1	<47	<61.1	<0.023	<0.211	470
11/13/2023	NPSW200@50'	200S @ 50'	1248	-	-	-	-	-	-	-	-
11/13/2023	NPSW200@75'	200S @ 75'	698	-	-	-	-	-	-	-	-
11/13/2023	NPSW200@100'	200S @ 100'	1458	-	-	-	-	-	-	-	-
11/13/2023	NPSW200@125'	200S @ 125'	>298	<4.9	<9.6	<14.5	<48	<62.5	<0.025	<0.221	290
11/14/2023	NPSW300@50'	300S @ 75'	>298	<4.9	<9.4	<14.3	<47	<61.3	<0.025	<0.222	230
11/13/2023	NPSW300@75	300S @ 50'	>298	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 100'	100N @ 20'	1700	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 100' 2	100N @ 40'	1700	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 100' 3	100N @ 50'	1983	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 100' 4	100N @ 75'	904	-	-	-	-	-	-	-	-
11/14/2023	North Wall TH @ 100' @ 100'	100N @ 100'	1575	-	-	-	-	-	-	-	-
11/14/2023	North Wall TH @ 100' @ 125'	100N @ 125'	1350	-	-	-	-	-	-	-	-
11/14/2023	North Wall TH @ 100' @ 150'	100N @ 150'	1065	-	-	-	-	-	-	-	-
11/14/2023	North Wall TH @ 100' @ 175'	100N @ 175'	762	-	-	-	-	-	-	-	-
11/14/2023	North Wall TH7 @ 100' @ 200'	100N @ 200'	<298	<4.8	<9.4	<14.2	<47	<61.2	<0.024	<0.217	170
11/9/2023	North Wall TH @ 200'	200N @ 75'	<298	-	-	-	-	-	-	-	180
11/9/2023	North Wall TH @ 300'	300N @ 50'	2144	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 300' 2	300N @ 75'	426	-	-	-	-	-	-	-	460
11/9/2023	North Wall TH @ 400'	400N @ 25'	1248	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 400' 2	400N @ 50'	1575	-	-	-	-	-	-	-	-
11/9/2023	North Wall TH @ 400' 3	400N @75'	<298	-	-	-	-	-	-	-	150
10/19/2023	N.Wall2 @ 1'	-	-	-	-	-	-	-	-	-	**970**
10/19/2023	N.Wall2 @ 2'	-	-	-	-	-	-	-	-	-	**1300**
10/19/2023	N.Wall2 @ 3'	-	-	-	-	-	-	-	-	-	**2100**
10/19/2023	N.Wall2 @ 4'	-	-	-	-	-	-	-	-	-	**4000**
11/16/2023	WC-242 (SAMPLE @ PIPELINE)	-	242	<4.9	<9.9	<14.8	<50	<64.8	<0.024	<0.220	**4200**
12/11/2023	OTH 1	-	1984	-	-	-	-	-	-	-	-
12/11/2023	OTH 2	-	1458	-	-	-	-	-	-	-	-
12/11/2023	OTH 3	-	2726	-	-	-	-	-	-	-	-
12/11/2023	OTH 5	-	4292	-	-	-	-	-	-	-	-
12/11/2023	OTH 6	-	380	<5.0	<9.7	<14.7	<49	<63.7	<0.025	<0.225	440
12/11/2023	OTH 7	-	426	<4.9	<9.7	<14.6	<49	<63.6	<0.025	<0.221	**640**
12/11/2023	OTH 8	-	338	<4.6	<9.8	<14.4	<49	<63.4	<0.023	<0.207	390
12/11/2023	OTH 9	-	380	<4.9	<9.5	<14.4	<48	<62.4	<0.024	<0.219	480
12/11/2023	OTH 10	-	426	<4.8	<9.4	<14.2	<47	<61.2	<0.024	<0.216	570
12/11/2023	OTH 4	-	<298	<4.6	<9.3	<13.9	<46	<59.9	<0.023	<0.207	190
12/12/2023	OTH 11	-	<298	<4.9	<9.6	<14.5	<48	<62.5	<0.024	<0.219	120
12/12/2023	OTH 12	-	<273	<4.6	<9.8	<14.4	<49	<63.4	<0.023	<0.207	290
12/12/2023	OTH 13	-	936	-	-	-	-	-	-	-	-
12/12/2023	OTH 14	-	<273	<5.0	<9.3	<14.3	<46	<60.3	<0.025	<0.224	120
12/12/2023	OTH 15	-	<273	<4.7	<9.4	<14.1	<47	<61.1	<0.023	<0.211	220

Appendix A

Field Photos

Photo 1: Chloride elevated area facing south at the 100-foot mark 75 feet from the excavation wall.

Photo 2: Chloride elevated area facing south at the 200-foot mark 125 feet from the excavation wall.

Photo 3: Chloride elevated area facing north at the 100-foot mark 200 feet from the excavation wall.

Photo 4: Chloride elevated area facing south at the 300-foot mark 50 feet from the excavation wall.

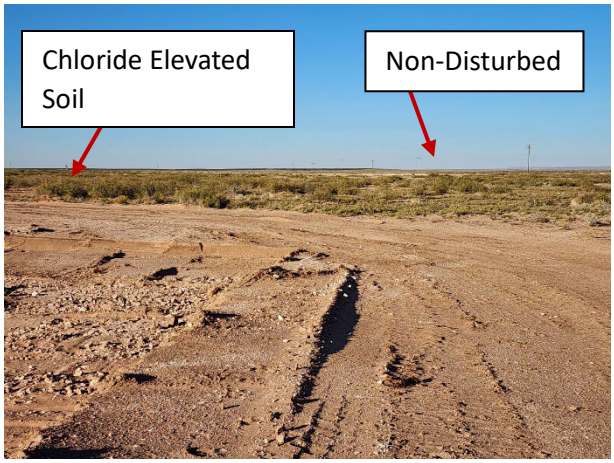


Photo 5: Chloride elevated area and clean area vegetation growth looking north.

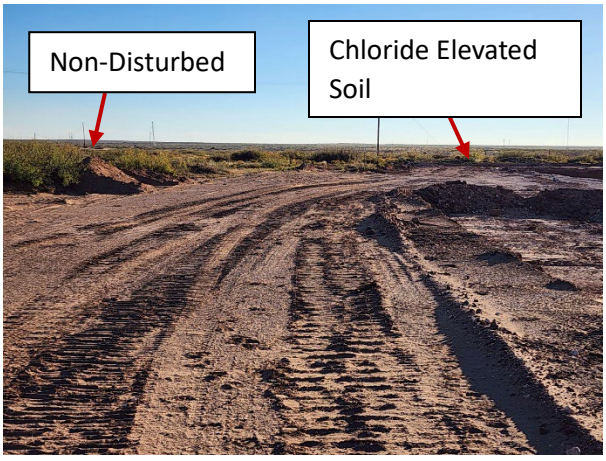


Photo 6: Chloride Elevated area and clean area vegetation growth looking south.

Picture 7 & 8: Depicting the South wall (Picture 7) and North wall (Picture 8) established vegetation in elevated Chloride soil.

Non-Elevated Chlorides Soil & Vegetation:

Picture 9: Non-Elevated Chlorides

Elevated Chlorides Soil & Vegetation:

Picture 10: Elevated Chlorides

Picture 11: Non-Elevated Chlorides

Picture 12: Elevated Chlorides

Picture 13: Non-Elevated Chlorides

Picture 14: Elevated Chlorides

Appendix B

Analytical Results

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 02, 2023

Greg Crabtree

Envirotech
5796 US Highway 64
Farmington, NM 87401
TEL: (505) 632-0615
FAX: (505) 632-1865

RE: Double L Queen OrderNo.: 2310A46

Dear Greg Crabtree:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/20/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2310A46**
Date Reported: **11/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech **Lab Order:** 2310A46
Project: Double L Queen

Lab ID: 2310A46-001 **Collection Date:** 10/19/2023 2:42:00 PM
Client Sample ID: N.Wall2@ 1' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **KCB**	
Chloride	970	60		mg/Kg	20	10/23/2023 6:02:21 PM	78305

Lab ID: 2310A46-002 **Collection Date:** 10/19/2023 2:45:00 PM
Client Sample ID: N.Wall2@2' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **KCB**	
Chloride	1300	60		mg/Kg	20	10/23/2023 6:14:46 PM	78305

Lab ID: 2310A46-003 **Collection Date:** 10/19/2023 2:49:00 PM
Client Sample ID: N.Wall2@3' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **KCB**	
Chloride	2100	60		mg/Kg	20	10/23/2023 6:27:10 PM	78305

Lab ID: 2310A46-004 **Collection Date:** 10/19/2023 2:52:00 PM
Client Sample ID: N.Wall2@4' **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Chloride	4000	150		mg/Kg	50	10/24/2023 2:20:54 PM	78305

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2310A46**

02-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-78305**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **78305**	RunNo: **100680**
Prep Date: **10/23/2023**	Analysis Date: **10/23/2023**	SeqNo: **3691878** Units: **mg/Kg**

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

Sample ID: **LCS-78305**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **78305**	RunNo: **100680**
Prep Date: **10/23/2023**	Analysis Date: **10/23/2023**	SeqNo: **3691879** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Envirotech | Work Order Number: 2310A46 | RcptNo: 1

Received By: Tracy Casarrubias 10/20/2023 12:00:00 PM

Completed By: Tracy Casarrubias 10/20/2023 12:32:43 PM

Reviewed By: JM 10/20/23

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: / (<2 or >12 unless noted)
Adjusted?
Checked by: SCM 10/20/23

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions: Mailing address and phone number are missing on COC- TMC 10/20/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.2	Good	Not Present	Morty		

Chain-of-Custody Record

Client: NMOCD

Mailing Address:

Phone #:

email or Fax#: Gcrabtree@envirotechinc.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☑ Rush

Project Name: Double L Queen

Project #: 23002-0004

Project Manager: Greg Crabtree

Sampler: ZG, AF

On Ice: ☑ Yes ☐ No marty

# of Coolers: 1

Cooler Temp(Including CF): 7.4-0.2=7.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2310A46	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
10/19/23	14:42	S	N. Wall 2 @ 1'	Glass	cool	001											X
"	14:45	"	N. Wall 2 @ 2'	"	"	002											X
"	14:49	"	N. Wall 2 @ 3'	"	"	003											X
"	14:52	"	N. Wall 2 @ 4'	"	"	004											X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/20/23	11:58			CPO	10/20/23	12:00
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 17, 2023

Greg Crabtree
Envirotech
5796 US Highway 64
Farmington, NM 87401
TEL: (505) 632-0615
FAX: (505) 632-1865

RE: Double L Queen OrderNo.: 2311588

Dear Greg Crabtree:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 11/10/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2311588**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Project: Double L Queen
Lab ID: 2311588-001 **Matrix:** SOIL

Client Sample ID: N. Wall TH 1@ 200
Collection Date: 11/9/2023 11:40:00 AM
Received Date: 11/10/2023 11:46:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	180	60		mg/Kg	20	11/13/2023 10:54:31 AM	78723
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/13/2023 9:10:14 AM	78722
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/13/2023 9:10:14 AM	78722
Surr: DNOP	85.9	69-147		%Rec	1	11/13/2023 9:10:14 AM	78722
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2023 6:51:23 PM	78714
Surr: BFB	92.9	15-244		%Rec	1	11/11/2023 6:51:23 PM	78714
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	11/13/2023 10:20:38 AM	78714
Toluene	ND	0.050		mg/Kg	1	11/13/2023 10:20:38 AM	78714
Ethylbenzene	ND	0.050		mg/Kg	1	11/13/2023 10:20:38 AM	78714
Xylenes, Total	ND	0.10		mg/Kg	1	11/13/2023 10:20:38 AM	78714
Surr: 1,2-Dichloroethane-d4	92.6	64.8-147		%Rec	1	11/13/2023 10:20:38 AM	78714
Surr: 4-Bromofluorobenzene	106	62.1-144		%Rec	1	11/13/2023 10:20:38 AM	78714
Surr: Dibromofluoromethane	100	73-145		%Rec	1	11/13/2023 10:20:38 AM	78714
Surr: Toluene-d8	95.8	70-130		%Rec	1	11/13/2023 10:20:38 AM	78714

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

Qualifiers:

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

Analytical Report
Lab Order **2311588**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: N. Wall TH 2@ 300
Project: Double L Queen
Collection Date: 11/9/2023 1:10:00 PM
Lab ID: 2311588-002 **Matrix:** SOIL **Received Date:** 11/10/2023 11:46:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	460	60		mg/Kg	20	11/13/2023 11:06:55 AM	78723
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/13/2023 9:20:38 AM	78722
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/13/2023 9:20:38 AM	78722
Surr: DNOP	94.5	69-147		%Rec	1	11/13/2023 9:20:38 AM	78722
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2023 7:14:52 PM	78714
Surr: BFB	93.5	15-244		%Rec	1	11/11/2023 7:14:52 PM	78714
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	11/13/2023 10:48:38 AM	78714
Toluene	ND	0.049		mg/Kg	1	11/13/2023 10:48:38 AM	78714
Ethylbenzene	ND	0.049		mg/Kg	1	11/13/2023 10:48:38 AM	78714
Xylenes, Total	ND	0.099		mg/Kg	1	11/13/2023 10:48:38 AM	78714
Surr: 1,2-Dichloroethane-d4	92.5	64.8-147		%Rec	1	11/13/2023 10:48:38 AM	78714
Surr: 4-Bromofluorobenzene	105	62.1-144		%Rec	1	11/13/2023 10:48:38 AM	78714
Surr: Dibromofluoromethane	100	73-145		%Rec	1	11/13/2023 10:48:38 AM	78714
Surr: Toluene-d8	98.3	70-130		%Rec	1	11/13/2023 10:48:38 AM	78714

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

Qualifiers:

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

Analytical Report
Lab Order **2311588**
Date Reported: **11/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Project: Double L Queen
Lab ID: 2311588-003 **Matrix:** SOIL

Client Sample ID: N. Wall TH 3@ 400
Collection Date: 11/9/2023 2:10:00 PM
Received Date: 11/10/2023 11:46:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	150	60		mg/Kg	20	11/13/2023 11:19:20 AM	78723
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/13/2023 9:31:03 AM	78722
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/13/2023 9:31:03 AM	78722
Surr: DNOP	98.6	69-147		%Rec	1	11/13/2023 9:31:03 AM	78722
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/11/2023 7:38:24 PM	78714
Surr: BFB	94.2	15-244		%Rec	1	11/11/2023 7:38:24 PM	78714
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	11/13/2023 11:16:48 AM	78714
Toluene	ND	0.046		mg/Kg	1	11/13/2023 11:16:48 AM	78714
Ethylbenzene	ND	0.046		mg/Kg	1	11/13/2023 11:16:48 AM	78714
Xylenes, Total	ND	0.093		mg/Kg	1	11/13/2023 11:16:48 AM	78714
Surr: 1,2-Dichloroethane-d4	93.0	64.8-147		%Rec	1	11/13/2023 11:16:48 AM	78714
Surr: 4-Bromofluorobenzene	101	62.1-144		%Rec	1	11/13/2023 11:16:48 AM	78714
Surr: Dibromofluoromethane	103	73-145		%Rec	1	11/13/2023 11:16:48 AM	78714
Surr: Toluene-d8	97.7	70-130		%Rec	1	11/13/2023 11:16:48 AM	78714

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-78723**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **78723**	RunNo: **101151**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3716101** Units: **mg/Kg**

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

Sample ID: **LCS-78723**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **78723**	RunNo: **101151**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3716102** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **LCS-78722**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **78722**	RunNo: **101124**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3713824** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	61.9	130			
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: **MB-78722**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78722**	RunNo: **101124**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3713827** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.7	69	147			

Sample ID: **2311588-003AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **N. Wall TH 3@ 400**	Batch ID: **78722**	RunNo: **101124**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714785** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.46	0	92.9	54.2	135			
Surr: DNOP	4.3		4.946		86.2	69	147			

Sample ID: **2311588-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **N. Wall TH 3@ 400**	Batch ID: **78722**	RunNo: **101124**
Prep Date: **11/13/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	49.90	0	96.5	54.2	135	4.67	29.2	
Surr: DNOP	4.9		4.990		97.7	69	147	0	0	

Sample ID: **LCS-78707**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **78707**	RunNo: **101124**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714787** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	69	147			

Sample ID: **MB-78707**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78707**	RunNo: **101124**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714789** Units: **%Rec**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-78707**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78707**	RunNo: **101124**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3714789** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **lcs-78714**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **78714**	RunNo: **101125**
Prep Date: **11/10/2023**	Analysis Date: **11/11/2023**	SeqNo: **3713950** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.9	70	130			
Surr: BFB	2000		1000		199	15	244			

Sample ID: **mb-78714**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **78714**	RunNo: **101125**
Prep Date: **11/10/2023**	Analysis Date: **11/11/2023**	SeqNo: **3713956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.9	15	244			

Sample ID: **2311588-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **N. Wall TH 1@ 200**	Batch ID: **78714**	RunNo: **101125**
Prep Date: **11/10/2023**	Analysis Date: **11/12/2023**	SeqNo: **3714070** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.78	0	97.8	70	130			
Surr: BFB	2000		991.1		201	15	244			

Sample ID: **2311588-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **N. Wall TH 1@ 200**	Batch ID: **78714**	RunNo: **101125**
Prep Date: **11/10/2023**	Analysis Date: **11/12/2023**	SeqNo: **3714071** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.95	0	103	70	130	5.49	20	
Surr: BFB	2000		998.0		203	15	244	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **2311588-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **N. Wall TH 1@ 200**	Batch ID: **78714**	RunNo: **101138**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717242** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9911	0	88.0	67.7	135			
Toluene	0.83	0.050	0.9911	0	84.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.4955		95.4	64.8	147			
Surr: 4-Bromofluorobenzene	0.53		0.4955		106	62.1	144			
Surr: Dibromofluoromethane	0.52		0.4955		105	73	145			
Surr: Toluene-d8	0.46		0.4955		93.4	70	130			

Sample ID: **2311588-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **N. Wall TH 1@ 200**	Batch ID: **78714**	RunNo: **101138**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717243** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9980	0	90.7	67.7	135	3.68	20	
Toluene	0.89	0.050	0.9980	0	89.5	70	130	6.86	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4990		93.5	64.8	147	0	0	
Surr: 4-Bromofluorobenzene	0.53		0.4990		105	62.1	144	0	0	
Surr: Dibromofluoromethane	0.51		0.4990		103	73	145	0	0	
Surr: Toluene-d8	0.49		0.4990		97.5	70	130	0	0	

Sample ID: **lcs-78687**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **78687**	RunNo: **101138**
Prep Date: **11/9/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717244** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	64.8	147			
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	62.1	144			
Surr: Dibromofluoromethane	0.50		0.5000		101	73	145			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Sample ID: **lcs-78714**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **78714**	RunNo: **101138**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717245** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	70	130			
Toluene	0.87	0.050	1.000	0	86.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.8	64.8	147			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	62.1	144			
Surr: Dibromofluoromethane	0.50		0.5000		99.8	73	145			
Surr: Toluene-d8	0.48		0.5000		96.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311588**

17-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **mb-78687**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **78687**	RunNo: **101138**
Prep Date: **11/9/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717246** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.2	64.8	147			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	62.1	144			
Surr: Dibromofluoromethane	0.52		0.5000		105	73	145			
Surr: Toluene-d8	0.49		0.5000		98.0	70	130			

Sample ID: **mb-78714**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **78714**	RunNo: **101138**
Prep Date: **11/10/2023**	Analysis Date: **11/13/2023**	SeqNo: **3717247** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.0	64.8	147			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	62.1	144			
Surr: Dibromofluoromethane	0.52		0.5000		104	73	145			
Surr: Toluene-d8	0.49		0.5000		98.9	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Envirotech Work Order Number: 2311588 RcptNo: 1

Received By: Juan Rojas 11/10/2023 11:46:00 AM

Completed By: Desiree Dominguez 11/10/2023 12:16:34 PM

Reviewed By: SCM 11/10/23

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JH 11-10-23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Client information incomplete on COC. Use Envirotech as client for Greg Crabtree. -DAD 11/10/23

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Not Present	Morty		

Chain-of-Custody Record

Client: NMOCD

Mailing Address:

Phone #:

email or Fax#: gcrabtree@enviro-tech-nm...

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 1 day

Project Name: Double L Queen

Project #: 23002-0004

Project Manager: Greg Crabtree

Sampler: A. Fuentes, Z. Garcia

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.5-0.1=4.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2311588	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX by 8260	Chlorides				
11/9/23	11:40	S	N. Wall TH 1 @ 200	4oz Glass	cool	-001		X									X	X				
11/9/23	13:10	S	N. Wall TH 2 @ 300	4oz Glass	cool	-002		X									X	X				
11/9/23	14:10	S	N. Wall TH 3 @ 400	4oz Glass	cool	-003		X									X	X				

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/10/23	11:10	[signature]	[signature]		11/10/23	11:46
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 29, 2023

Greg Crabtree
Envirotech
5796 US Highway 64
Farmington, NM 87401
TEL: (505) 632-0615
FAX: (505) 632-1865

RE: Double L Queen OrderNo.: 2311968

Dear Greg Crabtree:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 11/17/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2311968**
Date Reported: **11/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: N.Wall TH7@100'
Project: Double L Queen
Collection Date: 11/14/2023 10:30:00 AM
Lab ID: 2311968-001 **Matrix:** SOIL **Received Date:** 11/17/2023 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	59		mg/Kg	20	11/19/2023 2:00:27 PM	78892
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/20/2023 11:40:01 AM	78882
Surr: BFB	107	70-130		%Rec	1	11/20/2023 11:40:01 AM	78882
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/20/2023 9:49:14 AM	78896
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/20/2023 9:49:14 AM	78896
Surr: DNOP	85.8	69-147		%Rec	1	11/20/2023 9:49:14 AM	78896
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.024		mg/Kg	1	11/20/2023 11:40:01 AM	78882
Toluene	ND	0.048		mg/Kg	1	11/20/2023 11:40:01 AM	78882
Ethylbenzene	ND	0.048		mg/Kg	1	11/20/2023 11:40:01 AM	78882
Xylenes, Total	ND	0.097		mg/Kg	1	11/20/2023 11:40:01 AM	78882
Surr: Dibromofluoromethane	100	73-145		%Rec	1	11/20/2023 11:40:01 AM	78882
Surr: 1,2-Dichloroethane-d4	98.3	64.8-147		%Rec	1	11/20/2023 11:40:01 AM	78882
Surr: Toluene-d8	101	70-130		%Rec	1	11/20/2023 11:40:01 AM	78882
Surr: 4-Bromofluorobenzene	101	62.1-144		%Rec	1	11/20/2023 11:40:01 AM	78882

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

Qualifiers:

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

Analytical Report
Lab Order **2311968**
Date Reported: **11/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Project: Double L Queen
Lab ID: 2311968-002 **Matrix:** SOIL

Client Sample ID: S.Wall TH2@100'
Collection Date: 11/14/2023 10:42:00 AM
Received Date: 11/17/2023 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	470	61		mg/Kg	20	11/19/2023 2:37:42 PM	78892
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/20/2023 12:08:17 PM	78882
Surr: BFB	105	70-130		%Rec	1	11/20/2023 12:08:17 PM	78882
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/20/2023 9:59:39 AM	78896
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/20/2023 9:59:39 AM	78896
Surr: DNOP	84.0	69-147		%Rec	1	11/20/2023 9:59:39 AM	78896
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	11/20/2023 12:08:17 PM	78882
Toluene	ND	0.047		mg/Kg	1	11/20/2023 12:08:17 PM	78882
Ethylbenzene	ND	0.047		mg/Kg	1	11/20/2023 12:08:17 PM	78882
Xylenes, Total	ND	0.094		mg/Kg	1	11/20/2023 12:08:17 PM	78882
Surr: Dibromofluoromethane	104	73-145		%Rec	1	11/20/2023 12:08:17 PM	78882
Surr: 1,2-Dichloroethane-d4	99.0	64.8-147		%Rec	1	11/20/2023 12:08:17 PM	78882
Surr: Toluene-d8	98.8	70-130		%Rec	1	11/20/2023 12:08:17 PM	78882
Surr: 4-Bromofluorobenzene	102	62.1-144		%Rec	1	11/20/2023 12:08:17 PM	78882

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

Qualifiers:

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

Analytical Report
Lab Order **2311968**
Date Reported: **11/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Project: Double L Queen
Lab ID: 2311968-003 **Matrix:** SOIL

Client Sample ID: S.Wall TH4@200'
Collection Date: 11/14/2023 10:50:00 AM
Received Date: 11/17/2023 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	290	60		mg/Kg	20	11/19/2023 2:50:07 PM	78892
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/20/2023 12:36:37 PM	78882
Surr: BFB	104	70-130		%Rec	1	11/20/2023 12:36:37 PM	78882
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/20/2023 10:10:04 AM	78896
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/20/2023 10:10:04 AM	78896
Surr: DNOP	83.2	69-147		%Rec	1	11/20/2023 10:10:04 AM	78896
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	11/20/2023 12:36:37 PM	78882
Toluene	ND	0.049		mg/Kg	1	11/20/2023 12:36:37 PM	78882
Ethylbenzene	ND	0.049		mg/Kg	1	11/20/2023 12:36:37 PM	78882
Xylenes, Total	ND	0.098		mg/Kg	1	11/20/2023 12:36:37 PM	78882
Surr: Dibromofluoromethane	103	73-145		%Rec	1	11/20/2023 12:36:37 PM	78882
Surr: 1,2-Dichloroethane-d4	101	64.8-147		%Rec	1	11/20/2023 12:36:37 PM	78882
Surr: Toluene-d8	102	70-130		%Rec	1	11/20/2023 12:36:37 PM	78882
Surr: 4-Bromofluorobenzene	100	62.1-144		%Rec	1	11/20/2023 12:36:37 PM	78882

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

Qualifiers:

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

Analytical Report
Lab Order **2311968**
Date Reported: **11/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Project: Double L Queen
Lab ID: 2311968-004 **Matrix:** SOIL

Client Sample ID: S.Wall TH2@300'
Collection Date: 11/14/2023 11:08:00 AM
Received Date: 11/17/2023 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	230	60		mg/Kg	20	11/19/2023 3:27:21 PM	78892
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/20/2023 1:05:01 PM	78882
Surr: BFB	106	70-130		%Rec	1	11/20/2023 1:05:01 PM	78882
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/20/2023 10:20:30 AM	78896
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/20/2023 10:20:30 AM	78896
Surr: DNOP	90.6	69-147		%Rec	1	11/20/2023 10:20:30 AM	78896
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	11/20/2023 1:05:01 PM	78882
Toluene	ND	0.049		mg/Kg	1	11/20/2023 1:05:01 PM	78882
Ethylbenzene	ND	0.049		mg/Kg	1	11/20/2023 1:05:01 PM	78882
Xylenes, Total	ND	0.099		mg/Kg	1	11/20/2023 1:05:01 PM	78882
Surr: Dibromofluoromethane	105	73-145		%Rec	1	11/20/2023 1:05:01 PM	78882
Surr: 1,2-Dichloroethane-d4	98.7	64.8-147		%Rec	1	11/20/2023 1:05:01 PM	78882
Surr: Toluene-d8	98.2	70-130		%Rec	1	11/20/2023 1:05:01 PM	78882
Surr: 4-Bromofluorobenzene	102	62.1-144		%Rec	1	11/20/2023 1:05:01 PM	78882

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

Qualifiers:

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

Analytical Report
Lab Order **2311968**
Date Reported: **11/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: WC-242
Project: Double L Queen
Collection Date: 11/16/2023 3:06:00 PM
Lab ID: 2311968-005 **Matrix:** SOIL **Received Date:** 11/17/2023 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4200	150		mg/Kg	50	11/20/2023 9:05:33 PM	78892
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/20/2023 1:33:27 PM	78882
Surr: BFB	106	70-130		%Rec	1	11/20/2023 1:33:27 PM	78882
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/20/2023 10:30:57 AM	78896
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2023 10:30:57 AM	78896
Surr: DNOP	89.6	69-147		%Rec	1	11/20/2023 10:30:57 AM	78896
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	0.024		mg/Kg	1	11/20/2023 1:33:27 PM	78882
Toluene	ND	0.049		mg/Kg	1	11/20/2023 1:33:27 PM	78882
Ethylbenzene	ND	0.049		mg/Kg	1	11/20/2023 1:33:27 PM	78882
Xylenes, Total	ND	0.098		mg/Kg	1	11/20/2023 1:33:27 PM	78882
Surr: Dibromofluoromethane	103	73-145		%Rec	1	11/20/2023 1:33:27 PM	78882
Surr: 1,2-Dichloroethane-d4	96.5	64.8-147		%Rec	1	11/20/2023 1:33:27 PM	78882
Surr: Toluene-d8	99.8	70-130		%Rec	1	11/20/2023 1:33:27 PM	78882
Surr: 4-Bromofluorobenzene	104	62.1-144		%Rec	1	11/20/2023 1:33:27 PM	78882

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311968**

29-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-78892**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **78892**	RunNo: **101309**
Prep Date: **11/19/2023**	Analysis Date: **11/19/2023**	SeqNo: **3726155** Units: **mg/Kg**

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

Sample ID: **LCS-78892**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **78892**	RunNo: **101309**
Prep Date: **11/19/2023**	Analysis Date: **11/19/2023**	SeqNo: **3726159** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311968**

29-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **LCS-78896**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **78896**	RunNo: **101310**
Prep Date: **11/20/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	61.9	130			
Surr: DNOP	4.2		5.000		84.9	69	147			

Sample ID: **MB-78896**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **78896**	RunNo: **101310**
Prep Date: **11/20/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726255** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.6	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311968**

29-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **lcs-78882**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **78882**	RunNo: **101313**
Prep Date: **11/17/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726750** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.4	70	130			
Toluene	0.93	0.050	1.000	0	92.6	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	73	145			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.2	64.8	147			
Surr: Toluene-d8	0.50		0.5000		99.1	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	62.1	144			

Sample ID: **mb-78882**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **78882**	RunNo: **101313**
Prep Date: **11/17/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726751** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		96.2	73	145			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.5	64.8	147			
Surr: Toluene-d8	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	62.1	144			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2311968**

29-Nov-23

Client: Envirotech

Project: Double L Queen

Sample ID: **lcs-78882**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **78882**	RunNo: **101313**
Prep Date: **11/17/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726917** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	130	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: **mb-78882**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **78882**	RunNo: **101313**
Prep Date: **11/17/2023**	Analysis Date: **11/20/2023**	SeqNo: **3726919** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	540		500.0		108	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Envirotech | Work Order Number: 2311968 | RcptNo: 1

Received By: Juan Rojas 11/17/2023 12:00:00 PM

Completed By: Tracy Casarrubias 11/17/2023 12:32:56 PM

Reviewed By: SCM 11/17/23

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JM 11/17/23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address and phone number are missing on COC- TMC 11/17/23

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: Nmocd

Mailing Address:

Phone #:

email or Fax#: Gcrabtree@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 1 Day

Project Name: Double L Queen

Project #: 23002-0004

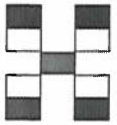
Project Manager: Greg Crabtree

Sampler: PM, ZG

On Ice: ☒ Yes ☐ No

# of Coolers: 1 4091

Cooler Temp(including CF): 2.5+0=2.5 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 23119168	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX by 8260	Chloride
11/14/23	10:30	S	N. Wall TH 7@100'	4oz Glass	cool	001		X									X	X
11/14/23	10:42	S	S. Wall TH 2@ 100'	4oz Glass	cool	002		X									X	X
11/14/23	10:56	S	S. Wall TH 4@ 200'	4oz Glass	cool	003		X									X	X
11/14/23	11:07	S	S. Wall TH 2@ 300'	4oz Glass	cool	004		X									X	X
11/16/23	15:06	S	WC-242	4oz Glass	cool	005		X									X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/19/23	12:00			CDO	11/17/23	12:00
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 29, 2023

Greg Crabtree
Envirotech
5796 US Highway 64
Farmington, NM 87401
TEL: (505) 632-0615
FAX: (505) 632-1865

RE: Double L Queen OrderNo.: 2312883

Dear Greg Crabtree:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 12/14/2023 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH6
Project: Double L Queen
Collection Date: 12/11/2023 12:46:00 PM
Lab ID: 2312883-001 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	440	60		mg/Kg	20	12/18/2023 2:05:38 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2023 2:45:25 PM	79415
Surr: BFB	114	70-130		%Rec	1	12/16/2023 2:45:25 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/17/2023 3:18:41 PM	79429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2023 3:18:41 PM	79429
Surr: DNOP	113	69-147		%Rec	1	12/17/2023 3:18:41 PM	79429
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	12/16/2023 2:45:25 PM	79415
Toluene	ND	0.050		mg/Kg	1	12/16/2023 2:45:25 PM	79415
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2023 2:45:25 PM	79415
Xylenes, Total	ND	0.10		mg/Kg	1	12/16/2023 2:45:25 PM	79415
Surr: 1,2-Dichloroethane-d4	108	64.8-147		%Rec	1	12/16/2023 2:45:25 PM	79415
Surr: 4-Bromofluorobenzene	101	62.1-144		%Rec	1	12/16/2023 2:45:25 PM	79415
Surr: Dibromofluoromethane	95.0	73-145		%Rec	1	12/16/2023 2:45:25 PM	79415
Surr: Toluene-d8	102	70-130		%Rec	1	12/16/2023 2:45:25 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH7
Project: Double L Queen
Collection Date: 12/11/2023 12:56:00 PM
Lab ID: 2312883-002 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	640	60		mg/Kg	20	12/18/2023 2:51:07 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2023 3:12:55 PM	79415
Surr: BFB	106	70-130		%Rec	1	12/16/2023 3:12:55 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/17/2023 3:29:19 PM	79429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2023 3:29:19 PM	79429
Surr: DNOP	110	69-147		%Rec	1	12/17/2023 3:29:19 PM	79429
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	12/16/2023 3:12:55 PM	79415
Toluene	ND	0.049		mg/Kg	1	12/16/2023 3:12:55 PM	79415
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2023 3:12:55 PM	79415
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2023 3:12:55 PM	79415
Surr: 1,2-Dichloroethane-d4	106	64.8-147		%Rec	1	12/16/2023 3:12:55 PM	79415
Surr: 4-Bromofluorobenzene	98.5	62.1-144		%Rec	1	12/16/2023 3:12:55 PM	79415
Surr: Dibromofluoromethane	93.2	73-145		%Rec	1	12/16/2023 3:12:55 PM	79415
Surr: Toluene-d8	98.2	70-130		%Rec	1	12/16/2023 3:12:55 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH8
Project: Double L Queen
Collection Date: 12/11/2023 1:32:00 PM
Lab ID: 2312883-003 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	390	60		mg/Kg	20	12/18/2023 3:06:16 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2023 4:35:41 PM	79415
Surr: BFB	108	70-130		%Rec	1	12/16/2023 4:35:41 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/17/2023 3:39:58 PM	79429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2023 3:39:58 PM	79429
Surr: DNOP	113	69-147		%Rec	1	12/17/2023 3:39:58 PM	79429
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	12/16/2023 4:35:41 PM	79415
Toluene	ND	0.046		mg/Kg	1	12/16/2023 4:35:41 PM	79415
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2023 4:35:41 PM	79415
Xylenes, Total	ND	0.092		mg/Kg	1	12/16/2023 4:35:41 PM	79415
Surr: 1,2-Dichloroethane-d4	108	64.8-147		%Rec	1	12/16/2023 4:35:41 PM	79415
Surr: 4-Bromofluorobenzene	101	62.1-144		%Rec	1	12/16/2023 4:35:41 PM	79415
Surr: Dibromofluoromethane	91.9	73-145		%Rec	1	12/16/2023 4:35:41 PM	79415
Surr: Toluene-d8	100	70-130		%Rec	1	12/16/2023 4:35:41 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH9
Project: Double L Queen
Collection Date: 12/11/2023 1:36:00 PM
Lab ID: 2312883-004 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	480	60		mg/Kg	20	12/18/2023 3:21:25 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2023 5:03:02 PM	79415
Surr: BFB	106	70-130		%Rec	1	12/16/2023 5:03:02 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/17/2023 3:50:37 PM	79429
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/17/2023 3:50:37 PM	79429
Surr: DNOP	108	69-147		%Rec	1	12/17/2023 3:50:37 PM	79429
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.024		mg/Kg	1	12/16/2023 5:03:02 PM	79415
Toluene	ND	0.049		mg/Kg	1	12/16/2023 5:03:02 PM	79415
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2023 5:03:02 PM	79415
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2023 5:03:02 PM	79415
Surr: 1,2-Dichloroethane-d4	101	64.8-147		%Rec	1	12/16/2023 5:03:02 PM	79415
Surr: 4-Bromofluorobenzene	103	62.1-144		%Rec	1	12/16/2023 5:03:02 PM	79415
Surr: Dibromofluoromethane	90.0	73-145		%Rec	1	12/16/2023 5:03:02 PM	79415
Surr: Toluene-d8	99.5	70-130		%Rec	1	12/16/2023 5:03:02 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH10
Project: Double L Queen
Collection Date: 12/11/2023 1:41:00 PM
Lab ID: 2312883-005 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	570	60		mg/Kg	20	12/18/2023 3:36:34 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2023 5:30:24 PM	79415
Surr: BFB	106	70-130		%Rec	1	12/16/2023 5:30:24 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/17/2023 4:11:46 PM	79430
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/17/2023 4:11:46 PM	79430
Surr: DNOP	109	69-147		%Rec	1	12/17/2023 4:11:46 PM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.024		mg/Kg	1	12/16/2023 5:30:24 PM	79415
Toluene	ND	0.048		mg/Kg	1	12/16/2023 5:30:24 PM	79415
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2023 5:30:24 PM	79415
Xylenes, Total	ND	0.096		mg/Kg	1	12/16/2023 5:30:24 PM	79415
Surr: 1,2-Dichloroethane-d4	103	64.8-147		%Rec	1	12/16/2023 5:30:24 PM	79415
Surr: 4-Bromofluorobenzene	101	62.1-144		%Rec	1	12/16/2023 5:30:24 PM	79415
Surr: Dibromofluoromethane	91.5	73-145		%Rec	1	12/16/2023 5:30:24 PM	79415
Surr: Toluene-d8	99.8	70-130		%Rec	1	12/16/2023 5:30:24 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH4
Project: Double L Queen
Collection Date: 12/11/2023 2:48:00 PM
Lab ID: 2312883-006 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	190	60		mg/Kg	20	12/18/2023 4:22:01 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2023 5:57:53 PM	79415
Surr: BFB	107	70-130		%Rec	1	12/16/2023 5:57:53 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/17/2023 4:22:34 PM	79430
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2023 4:22:34 PM	79430
Surr: DNOP	85.3	69-147		%Rec	1	12/17/2023 4:22:34 PM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	12/16/2023 5:57:53 PM	79415
Toluene	ND	0.046		mg/Kg	1	12/16/2023 5:57:53 PM	79415
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2023 5:57:53 PM	79415
Xylenes, Total	ND	0.092		mg/Kg	1	12/16/2023 5:57:53 PM	79415
Surr: 1,2-Dichloroethane-d4	109	64.8-147		%Rec	1	12/16/2023 5:57:53 PM	79415
Surr: 4-Bromofluorobenzene	104	62.1-144		%Rec	1	12/16/2023 5:57:53 PM	79415
Surr: Dibromofluoromethane	98.6	73-145		%Rec	1	12/16/2023 5:57:53 PM	79415
Surr: Toluene-d8	101	70-130		%Rec	1	12/16/2023 5:57:53 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH11
Project: Double L Queen
Collection Date: 12/11/2023 9:51:00 AM
Lab ID: 2312883-007 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	120	60		mg/Kg	20	12/18/2023 4:37:10 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2023 6:25:10 PM	79415
Surr: BFB	102	70-130		%Rec	1	12/16/2023 6:25:10 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/17/2023 4:33:21 PM	79430
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/17/2023 4:33:21 PM	79430
Surr: DNOP	85.7	69-147		%Rec	1	12/17/2023 4:33:21 PM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.024		mg/Kg	1	12/16/2023 6:25:10 PM	79415
Toluene	ND	0.049		mg/Kg	1	12/16/2023 6:25:10 PM	79415
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2023 6:25:10 PM	79415
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2023 6:25:10 PM	79415
Surr: 1,2-Dichloroethane-d4	106	64.8-147		%Rec	1	12/16/2023 6:25:10 PM	79415
Surr: 4-Bromofluorobenzene	103	62.1-144		%Rec	1	12/16/2023 6:25:10 PM	79415
Surr: Dibromofluoromethane	93.9	73-145		%Rec	1	12/16/2023 6:25:10 PM	79415
Surr: Toluene-d8	96.8	70-130		%Rec	1	12/16/2023 6:25:10 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH12
Project: Double L Queen
Collection Date: 12/12/2023 9:54:00 AM
Lab ID: 2312883-008 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	290	61		mg/Kg	20	12/18/2023 4:52:19 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2023 6:52:28 PM	79415
Surr: BFB	108	70-130		%Rec	1	12/16/2023 6:52:28 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/18/2023 8:27:47 AM	79430
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/18/2023 8:27:47 AM	79430
Surr: DNOP	88.7	69-147		%Rec	1	12/18/2023 8:27:47 AM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	12/16/2023 6:52:28 PM	79415
Toluene	ND	0.046		mg/Kg	1	12/16/2023 6:52:28 PM	79415
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2023 6:52:28 PM	79415
Xylenes, Total	ND	0.092		mg/Kg	1	12/16/2023 6:52:28 PM	79415
Surr: 1,2-Dichloroethane-d4	110	64.8-147		%Rec	1	12/16/2023 6:52:28 PM	79415
Surr: 4-Bromofluorobenzene	105	62.1-144		%Rec	1	12/16/2023 6:52:28 PM	79415
Surr: Dibromofluoromethane	97.5	73-145		%Rec	1	12/16/2023 6:52:28 PM	79415
Surr: Toluene-d8	103	70-130		%Rec	1	12/16/2023 6:52:28 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH14
Project: Double L Queen
Collection Date: 12/12/2023 10:06:00 AM
Lab ID: 2312883-009 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	120	61		mg/Kg	20	12/18/2023 5:07:29 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2023 7:19:43 PM	79415
Surr: BFB	107	70-130		%Rec	1	12/16/2023 7:19:43 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/17/2023 4:54:51 PM	79430
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2023 4:54:51 PM	79430
Surr: DNOP	83.4	69-147		%Rec	1	12/17/2023 4:54:51 PM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.025		mg/Kg	1	12/16/2023 7:19:43 PM	79415
Toluene	ND	0.050		mg/Kg	1	12/16/2023 7:19:43 PM	79415
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2023 7:19:43 PM	79415
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2023 7:19:43 PM	79415
Surr: 1,2-Dichloroethane-d4	110	64.8-147		%Rec	1	12/16/2023 7:19:43 PM	79415
Surr: 4-Bromofluorobenzene	100	62.1-144		%Rec	1	12/16/2023 7:19:43 PM	79415
Surr: Dibromofluoromethane	98.3	73-145		%Rec	1	12/16/2023 7:19:43 PM	79415
Surr: Toluene-d8	101	70-130		%Rec	1	12/16/2023 7:19:43 PM	79415

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

Qualifiers:

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

Analytical Report
Lab Order **2312883**
Date Reported: **12/29/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Envirotech
Client Sample ID: OTH15
Project: Double L Queen
Collection Date: 12/12/2023 11:27:00 AM
Lab ID: 2312883-010 **Matrix:** SOIL **Received Date:** 12/14/2023 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **RBC**	
Chloride	220	59		mg/Kg	20	12/18/2023 5:22:39 PM	79454
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **JR**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2023 7:47:11 PM	79415
Surr: BFB	108	70-130		%Rec	1	12/16/2023 7:47:11 PM	79415
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/17/2023 5:05:34 PM	79430
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/17/2023 5:05:34 PM	79430
Surr: DNOP	87.6	69-147		%Rec	1	12/17/2023 5:05:34 PM	79430
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **JR**	
Benzene	ND	0.023		mg/Kg	1	12/16/2023 7:47:11 PM	79415
Toluene	ND	0.047		mg/Kg	1	12/16/2023 7:47:11 PM	79415
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2023 7:47:11 PM	79415
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2023 7:47:11 PM	79415
Surr: 1,2-Dichloroethane-d4	106	64.8-147		%Rec	1	12/16/2023 7:47:11 PM	79415
Surr: 4-Bromofluorobenzene	103	62.1-144		%Rec	1	12/16/2023 7:47:11 PM	79415
Surr: Dibromofluoromethane	96.8	73-145		%Rec	1	12/16/2023 7:47:11 PM	79415
Surr: Toluene-d8	103	70-130		%Rec	1	12/16/2023 7:47:11 PM	79415

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-79454**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **79454**	RunNo: **101932**
Prep Date: **12/18/2023**	Analysis Date: **12/18/2023**	SeqNo: **3760123** Units: **mg/Kg**

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

Sample ID: **LCS-79454**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **79454**	RunNo: **101932**
Prep Date: **12/18/2023**	Analysis Date: **12/18/2023**	SeqNo: **3760124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **LCS-79429**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79429**	RunNo: **101885**
Prep Date: **12/17/2023**	Analysis Date: **12/17/2023**	SeqNo: **3757084** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	61.9	130			
Surr: DNOP	4.9		5.000		97.5	69	147			

Sample ID: **LCS-79430**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79430**	RunNo: **101885**
Prep Date: **12/17/2023**	Analysis Date: **12/17/2023**	SeqNo: **3757085** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	61.9	130			
Surr: DNOP	5.2		5.000		103	69	147			

Sample ID: **MB-79429**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79429**	RunNo: **101885**
Prep Date: **12/17/2023**	Analysis Date: **12/17/2023**	SeqNo: **3757086** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	69	147			

Sample ID: **MB-79430**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79430**	RunNo: **101885**
Prep Date: **12/17/2023**	Analysis Date: **12/17/2023**	SeqNo: **3757087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	69	147			

Sample ID: **LCS-79438**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **79438**	RunNo: **101904**
Prep Date: **12/18/2023**	Analysis Date: **12/18/2023**	SeqNo: **3758219** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.8	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **MB-79438**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **79438**	RunNo: **101904**
Prep Date: **12/18/2023**	Analysis Date: **12/18/2023**	SeqNo: **3758220** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		80.5	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **2312883-002ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **OTH7**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9911	0	105	75.8	123			
Toluene	0.98	0.050	0.9911	0	99.3	68.3	130			
Ethylbenzene	1.0	0.050	0.9911	0	105	76.6	132			
Xylenes, Total	3.2	0.099	2.973	0	109	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.53		0.4955		106	64.8	147			
Surr: 4-Bromofluorobenzene	0.51		0.4955		102	62.1	144			
Surr: Dibromofluoromethane	0.47		0.4955		93.9	73	145			
Surr: Toluene-d8	0.47		0.4955		94.1	70	130			

Sample ID: **2312883-002amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **OTH7**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757271** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9891	0	104	75.8	123	1.57	20	
Toluene	1.0	0.049	0.9891	0	104	68.3	130	4.24	20	
Ethylbenzene	1.0	0.049	0.9891	0	103	76.6	132	1.98	20	
Xylenes, Total	3.2	0.099	2.967	0	108	74.7	132	0.889	20	
Surr: 1,2-Dichloroethane-d4	0.54		0.4946		110	64.8	147	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.4946		104	62.1	144	0	0	
Surr: Dibromofluoromethane	0.47		0.4946		94.6	73	145	0	0	
Surr: Toluene-d8	0.48		0.4946		96.8	70	130	0	0	

Sample ID: **lcs-79415**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757290** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.9	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	64.8	147			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	62.1	144			
Surr: Dibromofluoromethane	0.47		0.5000		93.3	73	145			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **mb-79415**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	64.8	147			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	62.1	144			
Surr: Dibromofluoromethane	0.47		0.5000		94.0	73	145			
Surr: Toluene-d8	0.50		0.5000		100	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312883**

29-Dec-23

Client: Envirotech

Project: Double L Queen

Sample ID: **lcs-79415**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757474** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	70	130			
Surr: BFB	580		500.0		115	70	130			

Sample ID: **mb-79415**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/16/2023**	SeqNo: **3757475** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	550		500.0		109	70	130			

Sample ID: **2312883-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **OTH6**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/17/2023**	SeqNo: **3758286** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.98	0	110	70	130			
Surr: BFB	540		499.5		109	70	130			

Sample ID: **2312883-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **OTH6**	Batch ID: **79415**	RunNo: **101888**
Prep Date: **12/15/2023**	Analysis Date: **12/17/2023**	SeqNo: **3758287** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.90	0	118	70	130	6.86	20	
Surr: BFB	560		498.0		112	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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Envirotech | Work Order Number: 2312883 | RcptNo: 1

Received By: Juan Rojas | 12/14/2023 1:30:00 PM

Completed By: Cheyenne Cason | 12/14/2023 2:11:52 PM

Reviewed By: 12/14/23

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 12/14/23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Not Present	Morty		

Chain-of-Custody Record

Client: NMOCD

Mailing Address:

Phone #:

email or Fax#: Gcrabtree@envirotech-inc.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush 2 Day

Project Name: Double L Queen

Project #: 23002-0004

Project Manager: Greg Crabtree

Sampler: R. Garcia

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Morty

Cooler Temp(including CF): 1.5+0=1.5 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2312883	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX by 8260	Chlorides
12/11/23	12:46	S	OTH 6	2oz Glass	cool	001		X									X	X
12/11/23	12:56		OTH 7			002												
12/11/23	13:32		OTH 8			003												
12/11/23	13:36		OTH 9			004												
12/11/23	13:41		OTH 10			005												
12/11/23	14:19		OTH 4			006												
12/12/23	9:51		OTH 11			007												
12/12/23	9:54		OTH 12			008												
12/12/23	10:06		OTH 14			009												
12/12/23	11:27		OTH 15			012 010												

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/14/23	13:30			ONO	12/14/23	13:30
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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

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

CONDITIONS

Action 319986

CONDITIONS

Operator: CANYON E & P COMPANY 251 O'Connor Ridge Blvd. Irving, TX 75038	OGRID: 269864
	Action Number: 319986
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Variance request is approved.	3/8/2024