

CMU North Injection, CMU B #52

REMEDIATION WORK PLAN

API No. 30-025-01480

1RP-4773

Release Date: July 27th, 2017

Unit Letter G, Section 19, Township 17 South, Range 33 East

APPROVED

By Olivia Yu at 7:42 am, Sep 01, 2017

August 4, 2017

Prepared by:

Michael Burton, C&M Services P.O Box 3470 Hobbs, NM 88240 Phone: (575)499-5306

Marineburton@gmail.com

NMOCD approves of the delineation for 1RP-4773. For remediation, laboratory analyses (BTEX, TPH extended, chlorides) of sidewall and bottom samples are required for each of the 3 proposed excavation areas. Provide a scaled map with 1) the locations of the confirmation samples at <=50 ft. intervals and 2) each excavation area marked.

LINN ENERGY 08/01/2017

Olivia Yu Environmental Specialist NM Oil Conservation District-Division 2 1625 N. French Hobbs, NM 88240

RE: Linn Energy, CMU North Injection, CMU #52– Remediation Work Plan UL/G, Section 19, T17S, R33E API No. 30-025-01480

Ms. Yu,

Linn Energy (Linn) has retained C&M Service, to address environmental issues for the site detailed herein.

The site is located southeast of Maljamar, NM, in Lea County. The leak site resulted from a failure in a four inch fiberglass line. The impacted area is in the pasture west and south of the CMU B #52. Approximately 30 bbls of produced water was released, with none recovered. A site map is attached. A C-141 was drafted to the NMOCD on August 1, 2017.

Site Assessment and Delineation

On July 27, 2017 C&M personnel responded to the release site and dug up the line so a crew could fix it. C&M then scraped up the affected area to minimize the environmental impact

On July 28, 2017 C&M personnel returned to the site and sampled the spill area. C&M sampled 18 points of the spill area. The samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Clean samples were attained on all of the 18 samples plus 10' and sent to a lab for confirmation. Those samples, along with the field sampling results, are attached.

C&M has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to

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groundwater for this area is 100 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review C&M, on behalf of Linn Energy, would like to propose the following: Excavate in the areas of SP #16, and SP #18 to 2' BGS. Excavate in the areas of SP #2, SP #3, SP #11 and SP #13 to 3' BGS. Excavate in the areas of SP # 1. SP #4-6, SP #7-9, SP #10, SP#12, SP#14-#15, and SP#17 to 4' BGS and install a .20 mil liner as a barrier before backfill. Sidewall samples will be taken to ensure horizontal migration of chlorides has been eliminated, these samples will be taken to a lab for confirmation. Native topsoil will then be brought in for backfill, and all contaminated materials will be hauled to an approved NM State Disposal. Once backfilled, the area will be seeded with an approved BLM and or SLO mixture.

SLO Site Requirements

The site will be seeded with BLM Mix #2 or BLM LPC once site activities have been completed, ensuring lovegrass is not included within the seed mixture. The seed mixture will be planted within a one acre broadcast, with no primary or secondary noxious weeds within the seed mixture. The seed will be planted using a mechanical seeder to ensure proper depth of planting. The seed mixture will be spread equally and evenly over the disturbed area. If a mechanical seeder is not possible, the seed will be broadcast over the disturbed area by hand. Site evaluation of the disturbed area of the Linn location will be monitored for noxious weeds with final documentation submitted to SLO for closure. Should noxious weeds appear during monitoring activities, the weeds will be removed and properly disposed of at an approved facility.

Following the approval of the above plan, C&M will submit all proper closure documentation to the NMOCD, SLO and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Michael Burton

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LINN ENERGY 08/01/2017

Michael Burton

Environmental Superintendent

C&M Service.

P.O Box 3470

Hobbs, NM 88241

Mobile: (575)499-5306

Email: marineburton@gmail.com

Attachments: Initial Form C-141

Site/Sample Map Sample Data

Groundwater Data

GPS coordinates per sample point

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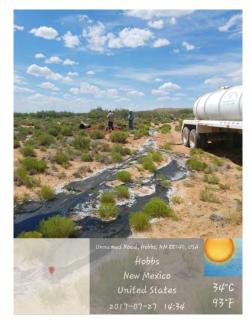


CMU North Injection, CMU B #052

PHOTO PAGE



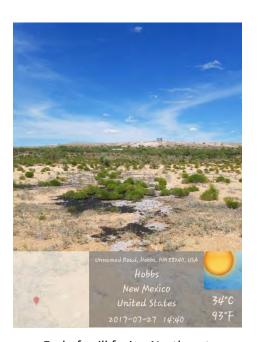
CMU #52 well sign



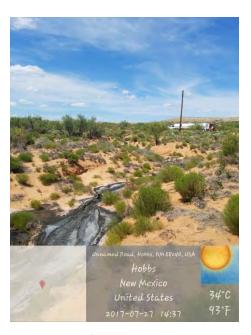
Spill facing north



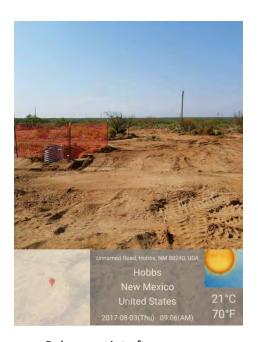
Spill facing South



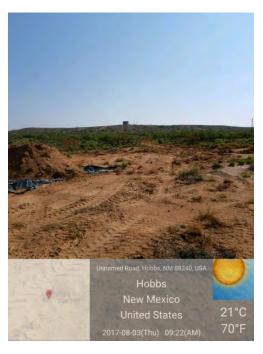
End of spill facing Northeast



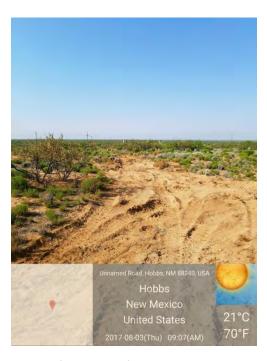
Spill facing northeast



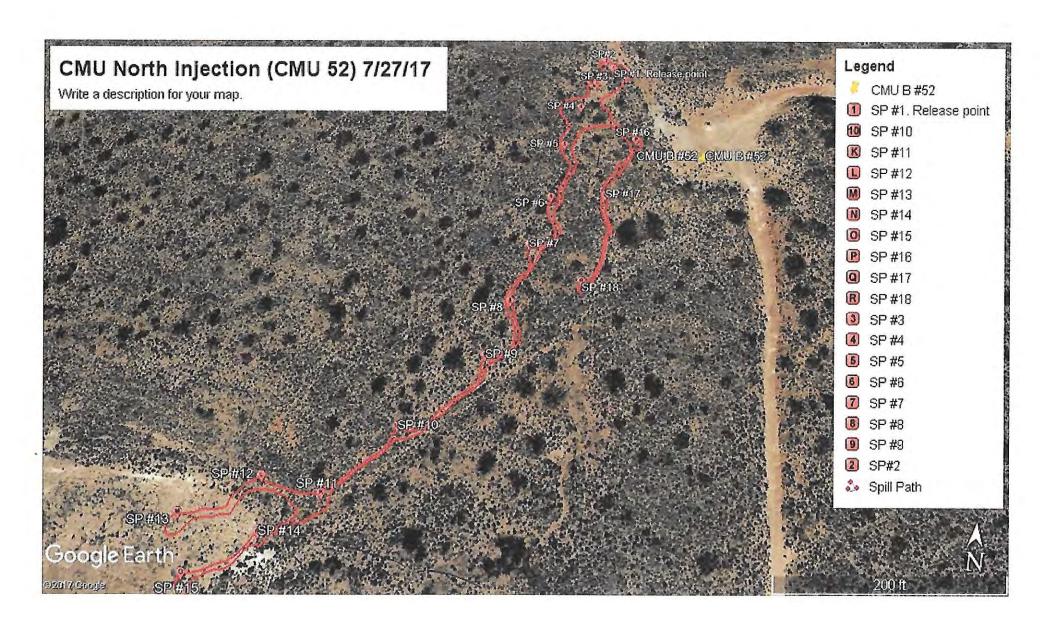
Release point after scrape



End of spill after scrape



After scrape facing north



C&M Services

Linn Energy 8/1/2017 **Company Name:** SP Date: **Location Name:** CMU N INJ CMU #52 Rel Date: 7/27/2017

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	PID
Surface	10,975	1.6	Surface	11,283	0.8	Surface	11,096	1.2	Surface	9,505	1.8	Surface	9,720	
1'	4,782	0.2	1'	8,937	0.9	1'	7,557	0.7	1'	6,933	1.2	1'	9,357	
2'	5,619	0.4	2'	881	1.2	2'	777	0.6	2'	6,633	0.8	2'	10,020	
3'	9,537	0	3'	355	9	3'	384	1.6	3'	4,898	0.3	3'	1,897	
4'	9,266	0	4'	265	0	4'	255	0	4'	1,079	0	4'	1,793	
5'	4,352	0	8'	312	0	8'	312	0	5'	456	0	5'	654	
6'	1,345	0	13'	300	0	13'	300	0	6'	301	0	7'	287	
7'	548	0							7'	421	0	8'	300	
8'	307	0							12'	300	0	13'	300	
9'	300	0							17'	326	0	18'	300	
13'	250	0												
18'	250	0												
Lab 8'	ND	TPH 0	Lab 3'	ND	TPH 0	Lab 3'	610	TPH 0	Lab 3'	ND	TPH 0	Lab 7'	ND	TPH 0
Lab 9'	ND	TPH 0	Lab 4'	ND	TPH 0	Lab 4'	ND	TPH 0	Lab 4'	ND	TPH 0	Lab 8'	ND	TPH 0
Lab18'	ND	TPH 0	Lab 13'	ND	TPH 0	Lab 13'	ND	TPH 0	Lab 17'	ND	TPH 0	Lab 18'	ND	TPH 0

3.2 0.7

TPH 0 TPH 0 TPH 0

C&M Services

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SP9	CHL	PID	SP10	CHL	PID
Surface	9,443	1.3	Surface	9,449	3.2	Surface	9,896	0.7	Surface	9,397	0.6	Surface	9,293	0.6
1'	7,469	0.2	1'	7,976	0.6	1'	9,381	0.4	1'	7,571	0.5	1'	8,313	0.6
2'	10,384	0.4	2'	5,373	0.6	2'	9,454	0.4	2'	8,763	0.6	2'	11,662	0.5
3'	10,366	0.3	3'	5,998	0.7	3'	10,272	0.8	3'	10,028	0.4	3'	2,532	0.5
4'	7,280	0	4'	5,736	0	4'	10,120	0	4'	4,282	0	4'	2,979	0.6
5'	1,532	0	5'	2.035	0	5'	4,635	0	5'	1,235	0	5'	1,111	0
6'	888	0	7'	956	0	6'	2,845	0	6'	510	0	6'	505	0
7'	412	0	9'	400	0	8'	653	0	7'	426	0	7'	333	0
8'	366	0	12'	269	0	10'	333	0	9'	321	0	8'	400	0
12'	400	0	16'	311	0	14'	311	0	12'	356	0	13'	366	0
17'	325	0							14'	411	0	18'	268	0
									16'	385	0			
Lab 7'	ND	TPH 0	Lab 9'	ND	TPH 0	Lab 8'	ND	TPH 0	Lab 7'	ND	TPH 0	Lab 7'	ND	TPH 0
Lab 8'	ND	TPH 0	Lab 12'	ND	TPH 0	Lab 10'	ND	TPH 0	Lab 9'	ND	TPH 0	Lab 8'	ND	TPH 0
Lab 17'	ND	TPH 0	Lab 16'	ND	TPH 0	Lab 14'	ND	TPH 0	Lab 16'	ND	TPH 0	Lab 18'	ND	TPH 0

SP11	CHL	PID	SP12	CHL	PID	SP13	CHL	PID	SP14	CHL	PID	SP15	CHL	PID
Surface	10,162	1.8	Surface	9,328	4.5	Surface	9,836	37.2	Surface	9,199	28.6	Surface	11,220	2.3
1'	9,057	0.8	1'	2,896	1.5	1'	809	2.3	1'	6,376	2.9	1'	8,395	1.2
2'	3,267	0.5	2'	9,430	0.7	2'	575	0	2'	3,599	3.3	2'	2,347	0.3
3'	657	0	3'	8,977	1.3	3'	265	1.4	3'	1,032	2	3'	1,118	0
4'	276	0	4'	4,226	0	4'	250	0	4'	300	0	4'	412	0
5'	265	0	7'	874	0	9'	315	0	5'	321	0	5'	365	0
10'	312	0	10'	342	0	14'	295	0	10'	352	0	10'	299	0
15'	324	0	12'	289	0				15'	289	0	15'	300	0
			14'	289	0									
Lab 4'	ND	TPH 0	Lab 10'	ND	TPH 0	Lab 2'	650	TPH 0	Lab 4'	460	TPH 0	Lab 4'	ND	TPH 0
Lab 5'	ND	TPH 0	Lab 12'	ND	TPH 0	Lab 3'	ND	TPH 0	Lab 5'	330	TPH 0	Lab 5'	ND	TPH 0
Lab 15'	ND	TPH 0	Lab 14'	ND	TPH 0	Lab 14'	ND	TPH 0	Lab 15'	ND	TPH 0	Lab 15'	36	TPH 0

C&M Services

SP16	CHL	PID	SP17	CHL	PID	SP18	CHL	PID	SP19	CHL	PID	SP20	CHL	PID
Surface	11,464	3.2	Surface	9,026	2.3	Surface	9,136	1.2						
1'	405	0	1'	1,444	1.2	1'	5,567	0.6						
2'	325	0	2'	2,530	0	2'	329	0.2						
3'	267	0	3'	7,205	0	3'	300	0						
8'	255	0	4'	7,527	0	4'	240	0						
13'	365	0	5'	2,124	0	9'	365	0						
			7'	945	0	14'	412	0						
			9'	400	0									
			12'	386	0									
			14'	400	0									
			17'	395	0									
Lab 2'	ND	TPH 0	Lab 9'	ND	TPH 0	Lab 3'	570	TPH 0						
Lab 3'	ND	TPH 0	Lab 10'	ND	TPH 0	Lab 4'	ND	TPH 0						
Lab 13'	ND	TPH 0	Lab 17'	ND	TPH 0	Lab 14'	ND	TPH 0						

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples

Linn Energy

CMU North Injection, CMU B #52

Sample point GPS

Background		32.822181, -103.700495
SP #1 release	point	32.82209, -103.70055
SP #2	32.822	12, -103.70058
SP #3	32.822	03, -103.70063
SP #4	32.821	93, -103.70073
SP #5	32.821	76, -103.70071
SP #6	32.821	56, -103.70074
SP #7	32.821	39, -103.70080
SP #8	32.821	20, -103.70084
SP #9	32.821	03, -103.70090
SP #10	32.820	81, -103.70114
SP #11	32.820	62, -103.70133
SP #12	32.820	65, -103.70152
SP #13	32.820	54, -103.70174
SP #14	32.820	51, -103.70149
SP #15	32.820	40, -103.70168
SP #16	32.821	80, -103.70045
SP #17	32.821	58, -103.70055
SP #18	32.821	28, -103.70061

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: Background

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 7:00:00 PM

 Lab ID:
 1708356-001
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2017 10:03:11 AM
Surr: DNOP	91.9	70-130	%Rec	1	8/8/2017 10:03:11 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 11:13:12 AM
Surr: BFB	87.0	54-150	%Rec	1	8/8/2017 11:13:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 11:13:12 AM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 11:13:12 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 11:13:12 AM
Xylenes, Total	ND	0.093	mg/Kg	1	8/8/2017 11:13:12 AM
Surr: 4-Bromofluorobenzene	100	66.6-132	%Rec	1	8/8/2017 11:13:12 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 12:06:41 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP1 @ 8'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:05:00 PM

 Lab ID:
 1708356-002
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/8/2017 11:27:46 AM
Surr: DNOP	90.4	70-130	%Rec	1	8/8/2017 11:27:46 AM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 12:24:29 PM
Surr: BFB	86.7	54-150	%Rec	1	8/8/2017 12:24:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	8/8/2017 12:24:29 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 12:24:29 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 12:24:29 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/8/2017 12:24:29 PM
Surr: 4-Bromofluorobenzene	99.5	66.6-132	%Rec	1	8/8/2017 12:24:29 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 12:43:53 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP1 @ 9'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:05:00 PM

 Lab ID:
 1708356-003
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/8/2017 11:55:50 AM
Surr: DNOP	90.5	70-130	%Rec	1	8/8/2017 11:55:50 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 1:35:37 PM
Surr: BFB	88.4	54-150	%Rec	1	8/8/2017 1:35:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	8/8/2017 1:35:37 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 1:35:37 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 1:35:37 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2017 1:35:37 PM
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	8/8/2017 1:35:37 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 1:21:07 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP1 @ 18'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:05:00 PM

 Lab ID:
 1708356-004
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2017 12:23:50 PM
Surr: DNOP	92.2	70-130	%Rec	1	8/8/2017 12:23:50 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 1:59:18 PM
Surr: BFB	88.7	54-150	%Rec	1	8/8/2017 1:59:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 1:59:18 PM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 1:59:18 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 1:59:18 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/8/2017 1:59:18 PM
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	8/8/2017 1:59:18 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 1:33:32 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP2 @ 3'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:00:00 PM

 Lab ID:
 1708356-005
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/8/2017 12:52:10 PM
Surr: DNOP	91.9	70-130	%Rec	1	8/8/2017 12:52:10 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 2:23:03 PM
Surr: BFB	88.9	54-150	%Rec	1	8/8/2017 2:23:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 2:23:03 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 2:23:03 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 2:23:03 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/8/2017 2:23:03 PM
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	8/8/2017 2:23:03 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 1:45:56 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP2 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:00:00 PM

 Lab ID:
 1708356-006
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2017 1:20:40 PM
Surr: DNOP	90.2	70-130	%Rec	1	8/8/2017 1:20:40 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 2:46:51 PM
Surr: BFB	89.0	54-150	%Rec	1	8/8/2017 2:46:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 2:46:51 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 2:46:51 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 2:46:51 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2017 2:46:51 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 2:46:51 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 1:58:21 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP2 @ 13'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:10:00 PM

 Lab ID:
 1708356-007
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/8/2017 1:49:14 PM
Surr: DNOP	88.4	70-130	%Rec	1	8/8/2017 1:49:14 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 3:10:37 PM
Surr: BFB	88.0	54-150	%Rec	1	8/8/2017 3:10:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 3:10:37 PM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 3:10:37 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 3:10:37 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 3:10:37 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 3:10:37 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 2:10:45 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP3 @ 3'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:01:00 PM

 Lab ID:
 1708356-008
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2017 2:17:45 PM
Surr: DNOP	90.7	70-130	%Rec	1	8/8/2017 2:17:45 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 3:34:28 PM
Surr: BFB	89.1	54-150	%Rec	1	8/8/2017 3:34:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 3:34:28 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 3:34:28 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 3:34:28 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2017 3:34:28 PM
Surr: 4-Bromofluorobenzene	102	66.6-132	%Rec	1	8/8/2017 3:34:28 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	610	30	mg/Kg	20	8/8/2017 2:23:10 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP3 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:01:00 PM

 Lab ID:
 1708356-009
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/8/2017 2:46:16 PM
Surr: DNOP	89.6	70-130	%Rec	1	8/8/2017 2:46:16 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2017 3:58:16 PM
Surr: BFB	87.8	54-150	%Rec	1	8/8/2017 3:58:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 3:58:16 PM
Toluene	ND	0.046	mg/Kg	1	8/8/2017 3:58:16 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/8/2017 3:58:16 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/8/2017 3:58:16 PM
Surr: 4-Bromofluorobenzene	98.4	66.6-132	%Rec	1	8/8/2017 3:58:16 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 2:35:34 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP3 @ 13'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:10:00 PM

 Lab ID:
 1708356-010
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/8/2017 3:14:37 PM
Surr: DNOP	87.9	70-130	%Rec	1	8/8/2017 3:14:37 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 4:22:01 PM
Surr: BFB	88.8	54-150	%Rec	1	8/8/2017 4:22:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 4:22:01 PM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 4:22:01 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 4:22:01 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 4:22:01 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 4:22:01 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 2:47:58 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP4 @ 3'

Collection Date: 8/1/2017 5:10:00 PM **Project:** CMU N INJ CMU 52 Received Date: 8/5/2017 12:00:00 PM Lab ID: 1708356-011 Matrix: SOIL

PQL Qual Units DF Analyses Result **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM

					,
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/8/2017 4:11:25 PM
Surr: DNOP	93.0	70-130	%Rec	1	8/8/2017 4:11:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 7:55:34 PM
Surr: BFB	88.4	54-150	%Rec	1	8/8/2017 7:55:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 7:55:34 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 7:55:34 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 7:55:34 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2017 7:55:34 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 7:55:34 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 3:00:23 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 0J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP4 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:10:00 PM

 Lab ID:
 1708356-012
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

ND

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **TOM** Diesel Range Organics (DRO) 9.9 mg/Kg 8/8/2017 4:39:49 PM 1 Surr: DNOP 87.2 70-130 %Rec 1 8/8/2017 4:39:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 8/8/2017 8:19:12 PM Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 Surr: BFB 88.8 54-150 %Rec 1 8/8/2017 8:19:12 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/8/2017 8:19:12 PM Benzene ND 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 8/8/2017 8:19:12 PM 1 Ethylbenzene ND 0.049 mg/Kg 8/8/2017 8:19:12 PM ND Xylenes, Total 0.098 mg/Kg 8/8/2017 8:19:12 PM 1 Surr: 4-Bromofluorobenzene 101 66.6-132 %Rec 8/8/2017 8:19:12 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA

30

mg/Kg

20

8/8/2017 3:12:48 PM

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

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP4 @ 17'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:13:00 PM

 Lab ID:
 1708356-013
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2017 5:08:21 PM
Surr: DNOP	85.5	70-130	%Rec	1	8/8/2017 5:08:21 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 8:42:47 PM
Surr: BFB	87.6	54-150	%Rec	1	8/8/2017 8:42:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 8:42:47 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 8:42:47 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 8:42:47 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2017 8:42:47 PM
Surr: 4-Bromofluorobenzene	99.8	66.6-132	%Rec	1	8/8/2017 8:42:47 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 3:50:02 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP5 @ 7'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:13:00 PM

 Lab ID:
 1708356-014
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/8/2017 5:37:11 PM
Surr: DNOP	84.9	70-130	%Rec	1	8/8/2017 5:37:11 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 9:06:20 PM
Surr: BFB	89.2	54-150	%Rec	1	8/8/2017 9:06:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 9:06:20 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 9:06:20 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 9:06:20 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2017 9:06:20 PM
Surr: 4-Bromofluorobenzene	99.5	66.6-132	%Rec	1	8/8/2017 9:06:20 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 4:02:26 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP5 @ 8'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:13:00 PM

 Lab ID:
 1708356-015
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/8/2017 6:06:14 PM
Surr: DNOP	87.7	70-130	%Rec	1	8/8/2017 6:06:14 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 9:29:58 PM
Surr: BFB	87.8	54-150	%Rec	1	8/8/2017 9:29:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 9:29:58 PM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 9:29:58 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 9:29:58 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/8/2017 9:29:58 PM
Surr: 4-Bromofluorobenzene	99.5	66.6-132	%Rec	1	8/8/2017 9:29:58 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 4:14:50 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 15 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT:CM ServicesClient Sample ID: SP5 @ 18'Project:CMU N INJ CMU 52Collection Date: 8/1/2017

Lab ID: 1708356-016 **Matrix:** SOIL **Received Date:** 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/8/2017 6:34:50 PM
Surr: DNOP	85.9	70-130	%Rec	1	8/8/2017 6:34:50 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2017 9:53:41 PM
Surr: BFB	88.4	54-150	%Rec	1	8/8/2017 9:53:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 9:53:41 PM
Toluene	ND	0.047	mg/Kg	1	8/8/2017 9:53:41 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/8/2017 9:53:41 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 9:53:41 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 9:53:41 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 4:27:15 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT:CM ServicesClient Sample ID: SP6 @ 7'Project:CMU N INJ CMU 52Collection Date: 8/1/2017

Lab ID: 1708356-017 **Matrix:** SOIL **Received Date:** 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/8/2017 7:03:37 PM
Surr: DNOP	90.2	70-130	%Rec	1	8/8/2017 7:03:37 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 10:17:19 PM
Surr: BFB	88.2	54-150	%Rec	1	8/8/2017 10:17:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 10:17:19 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 10:17:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 10:17:19 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/8/2017 10:17:19 PM
Surr: 4-Bromofluorobenzene	99.9	66.6-132	%Rec	1	8/8/2017 10:17:19 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 4:39:39 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services Client Sample ID: SP6 @ 8'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-018
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/8/2017 7:32:26 PM
Surr: DNOP	89.5	70-130	%Rec	1	8/8/2017 7:32:26 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 10:40:52 PM
Surr: BFB	86.3	54-150	%Rec	1	8/8/2017 10:40:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	8/8/2017 10:40:52 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 10:40:52 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 10:40:52 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2017 10:40:52 PM
Surr: 4-Bromofluorobenzene	97.2	66.6-132	%Rec	1	8/8/2017 10:40:52 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 4:52:04 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP6 @ 17'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-019
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2017 8:00:42 PM
Surr: DNOP	93.6	70-130	%Rec	1	8/8/2017 8:00:42 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 11:04:26 PM
Surr: BFB	88.4	54-150	%Rec	1	8/8/2017 11:04:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 11:04:26 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 11:04:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 11:04:26 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 11:04:26 PM
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/8/2017 11:04:26 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 5:29:18 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP7 @ 9'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-020
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/8/2017 12:35:39 PM
Surr: DNOP	90.7	70-130	%Rec	1	8/8/2017 12:35:39 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 11:28:04 PM
Surr: BFB	88.9	54-150	%Rec	1	8/8/2017 11:28:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 11:28:04 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 11:28:04 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 11:28:04 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 11:28:04 PM
Surr: 4-Bromofluorobenzene	100	66.6-132	%Rec	1	8/8/2017 11:28:04 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 6:31:22 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP7 @ 12'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-021
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/8/2017 1:50:38 PM		
Surr: DNOP	93.0	70-130	%Rec	1	8/8/2017 1:50:38 PM		
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2017 1:02:23 AM		
Surr: BFB	88.6	54-150	%Rec	1	8/9/2017 1:02:23 AM		
EPA METHOD 8021B: VOLATILES					Analyst: RAA		
Benzene	ND	0.024	mg/Kg	1	8/9/2017 1:02:23 AM		
Toluene	ND	0.048	mg/Kg	1	8/9/2017 1:02:23 AM		
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2017 1:02:23 AM		
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2017 1:02:23 AM		
Surr: 4-Bromofluorobenzene	101	66.6-132	%Rec	1	8/9/2017 1:02:23 AM		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	30	mg/Kg	20	8/8/2017 7:08:36 PM		

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP7 @ 16

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-022
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analy							
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/8/2017 2:15:44 PM		
Surr: DNOP	88.1	70-130	%Rec	1	8/8/2017 2:15:44 PM		
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2017 1:25:58 AM		
Surr: BFB	89.1	54-150	%Rec	1	8/9/2017 1:25:58 AM		
EPA METHOD 8021B: VOLATILES					Analyst: RAA		
Benzene	ND	0.024	mg/Kg	1	8/9/2017 1:25:58 AM		
Toluene	ND	0.049	mg/Kg	1	8/9/2017 1:25:58 AM		
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2017 1:25:58 AM		
Xylenes, Total	ND	0.098	mg/Kg	1	8/9/2017 1:25:58 AM		
Surr: 4-Bromofluorobenzene	100	66.6-132	%Rec	1	8/9/2017 1:25:58 AM		
EPA METHOD 300.0: ANIONS					Analyst: MRA		
Chloride	ND	30	mg/Kg	20	8/8/2017 7:21:00 PM		

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 22 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP8 @ 8'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-023
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **TOM** Diesel Range Organics (DRO) 9.5 mg/Kg 8/8/2017 2:40:40 PM 1 Surr: DNOP 85.0 70-130 %Rec 1 8/8/2017 2:40:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 8/9/2017 1:49:37 AM Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 Surr: BFB 87.9 54-150 %Rec 1 8/9/2017 1:49:37 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/9/2017 1:49:37 AM Benzene ND 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 8/9/2017 1:49:37 AM 1 Ethylbenzene ND 0.046 mg/Kg 8/9/2017 1:49:37 AM ND Xylenes, Total 0.092 mg/Kg 8/9/2017 1:49:37 AM 1 Surr: 4-Bromofluorobenzene 100 66.6-132 %Rec 8/9/2017 1:49:37 AM **EPA METHOD 300.0: ANIONS** Analyst: MRA

30

mg/Kg

20

8/8/2017 7:33:25 PM

ND

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

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 23 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP8 @ 10'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:15:00 PM

 Lab ID:
 1708356-024
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **TOM** Diesel Range Organics (DRO) 10 mg/Kg 8/8/2017 3:05:43 PM 1 Surr: DNOP 87.0 70-130 %Rec 1 8/8/2017 3:05:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA 8/9/2017 2:13:12 AM Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 Surr: BFB 87.8 54-150 %Rec 1 8/9/2017 2:13:12 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/9/2017 2:13:12 AM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 8/9/2017 2:13:12 AM 1 Ethylbenzene ND 0.047 mg/Kg 8/9/2017 2:13:12 AM Xylenes, Total ND 0.094 mg/Kg 8/9/2017 2:13:12 AM 1 Surr: 4-Bromofluorobenzene 99.1 66.6-132 %Rec 8/9/2017 2:13:12 AM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 8/8/2017 7:45:50 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 24 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP8 @ 14'

Collection Date: 8/1/2017 5:15:00 PM **Project:** CMU N INJ CMU 52 Matrix: SOIL Received Date: 8/5/2017 12:00:00 PM Lab ID: 1708356-025

Result **PQL Qual Units** DF **Analyses Date Analyzed**

1 Hary Ses	Result	TQL Qu	ar Cints	DI	Date Many zea
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/8/2017 3:30:29 PM
Surr: DNOP	93.4	70-130	%Rec	1	8/8/2017 3:30:29 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2017 2:36:45 AM
Surr: BFB	87.9	54-150	%Rec	1	8/9/2017 2:36:45 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 2:36:45 AM
Toluene	ND	0.048	mg/Kg	1	8/9/2017 2:36:45 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2017 2:36:45 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2017 2:36:45 AM
Surr: 4-Bromofluorobenzene	98.8	66.6-132	%Rec	1	8/9/2017 2:36:45 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 7:58:15 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 25 of 0J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP9 @ 7'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:20:00 PM

 Lab ID:
 1708356-026
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 9.7 mg/Kg 8/8/2017 4:52:20 PM 1 Surr: DNOP 85.7 70-130 %Rec 1 8/8/2017 4:52:20 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 8/9/2017 3:00:18 AM Surr: BFB 88.0 54-150 %Rec 1 8/9/2017 3:00:18 AM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene 8/9/2017 3:00:18 AM ND 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 8/9/2017 3:00:18 AM 1 Ethylbenzene ND 0.047 mg/Kg 8/9/2017 3:00:18 AM Xylenes, Total ND 0.094 mg/Kg 8/9/2017 3:00:18 AM 1 Surr: 4-Bromofluorobenzene 99.6 66.6-132 %Rec 8/9/2017 3:00:18 AM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 8/8/2017 8:35:28 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 26 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP9 @ 9'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:20:00 PM

 Lab ID:
 1708356-027
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/8/2017 5:17:26 PM
Surr: DNOP	85.6	70-130	%Rec	1	8/8/2017 5:17:26 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2017 3:23:49 AM
Surr: BFB	86.6	54-150	%Rec	1	8/9/2017 3:23:49 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	8/9/2017 3:23:49 AM
Toluene	ND	0.050	mg/Kg	1	8/9/2017 3:23:49 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/9/2017 3:23:49 AM
Xylenes, Total	ND	0.10	mg/Kg	1	8/9/2017 3:23:49 AM
Surr: 4-Bromofluorobenzene	98.4	66.6-132	%Rec	1	8/9/2017 3:23:49 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 8:47:53 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 27 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services Client Sample ID: SP9 @ 16'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-028
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/8/2017 5:42:35 PM
Surr: DNOP	80.6	70-130	%Rec	1	8/8/2017 5:42:35 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2017 3:47:16 AM
Surr: BFB	87.8	54-150	%Rec	1	8/9/2017 3:47:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 3:47:16 AM
Toluene	ND	0.049	mg/Kg	1	8/9/2017 3:47:16 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2017 3:47:16 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2017 3:47:16 AM
Surr: 4-Bromofluorobenzene	97.9	66.6-132	%Rec	1	8/9/2017 3:47:16 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 9:00:18 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 28 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP10 @ 7'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-029
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/8/2017 6:07:51 PM
Surr: DNOP	83.4	70-130	%Rec	1	8/8/2017 6:07:51 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/9/2017 4:11:03 AM
Surr: BFB	87.7	54-150	%Rec	1	8/9/2017 4:11:03 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 4:11:03 AM
Toluene	ND	0.047	mg/Kg	1	8/9/2017 4:11:03 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/9/2017 4:11:03 AM
Xylenes, Total	ND	0.094	mg/Kg	1	8/9/2017 4:11:03 AM
Surr: 4-Bromofluorobenzene	98.6	66.6-132	%Rec	1	8/9/2017 4:11:03 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 9:12:42 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 29 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services Client Sample ID: SP10 @ 8'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-030
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/8/2017 6:33:01 PM
Surr: DNOP	89.3	70-130	%Rec	1	8/8/2017 6:33:01 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2017 4:34:46 AM
Surr: BFB	88.4	54-150	%Rec	1	8/9/2017 4:34:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 4:34:46 AM
Toluene	ND	0.048	mg/Kg	1	8/9/2017 4:34:46 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2017 4:34:46 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/9/2017 4:34:46 AM
Surr: 4-Bromofluorobenzene	98.2	66.6-132	%Rec	1	8/9/2017 4:34:46 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 9:25:07 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 30 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP10 @ 18'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-031
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2017 6:58:11 PM
Surr: DNOP	82.0	70-130	%Rec	1	8/8/2017 6:58:11 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2017 3:31:06 AM
Surr: BFB	91.9	54-150	%Rec	1	8/9/2017 3:31:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/9/2017 3:31:06 AM
Toluene	ND	0.046	mg/Kg	1	8/9/2017 3:31:06 AM
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2017 3:31:06 AM
Xylenes, Total	ND	0.093	mg/Kg	1	8/9/2017 3:31:06 AM
Surr: 4-Bromofluorobenzene	113	66.6-132	%Rec	1	8/9/2017 3:31:06 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 9:37:32 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 31 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP11 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-032
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RA	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/8/2017 7:23:12 PM			
Surr: DNOP	90.4	70-130	%Rec	1	8/8/2017 7:23:12 PM			
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2017 3:55:04 AM			
Surr: BFB	91.3	54-150	%Rec	1	8/9/2017 3:55:04 AM			
EPA METHOD 8021B: VOLATILES					Analyst: RAA			
Benzene	ND	0.024	mg/Kg	1	8/9/2017 3:55:04 AM			
Toluene	ND	0.048	mg/Kg	1	8/9/2017 3:55:04 AM			
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2017 3:55:04 AM			
Xylenes, Total	ND	0.096	mg/Kg	1	8/9/2017 3:55:04 AM			
Surr: 4-Bromofluorobenzene	114	66.6-132	%Rec	1	8/9/2017 3:55:04 AM			
EPA METHOD 300.0: ANIONS					Analyst: MRA			
Chloride	ND	30	mg/Kg	20	8/8/2017 9:49:56 PM			

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 32 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP11 @ 5'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-033
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst:									
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2017 7:48:23 PM				
Surr: DNOP	89.8	70-130	%Rec	1	8/8/2017 7:48:23 PM				
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2017 4:19:04 AM				
Surr: BFB	91.8	54-150	%Rec	1	8/9/2017 4:19:04 AM				
EPA METHOD 8021B: VOLATILES					Analyst: RAA				
Benzene	ND	0.024	mg/Kg	1	8/9/2017 4:19:04 AM				
Toluene	ND	0.048	mg/Kg	1	8/9/2017 4:19:04 AM				
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2017 4:19:04 AM				
Xylenes, Total	ND	0.095	mg/Kg	1	8/9/2017 4:19:04 AM				
Surr: 4-Bromofluorobenzene	114	66.6-132	%Rec	1	8/9/2017 4:19:04 AM				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	ND	30	mg/Kg	20	8/8/2017 10:02:20 PM				

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 33 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP11 @ 15'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-034
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2017 8:13:23 PM
Surr: DNOP	84.5	70-130	%Rec	1	8/8/2017 8:13:23 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2017 4:43:05 AM
Surr: BFB	88.7	54-150	%Rec	1	8/9/2017 4:43:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/9/2017 4:43:05 AM
Toluene	ND	0.046	mg/Kg	1	8/9/2017 4:43:05 AM
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2017 4:43:05 AM
Xylenes, Total	ND	0.092	mg/Kg	1	8/9/2017 4:43:05 AM
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	8/9/2017 4:43:05 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 10:14:44 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 34 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP12 @ 10'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-035
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/8/2017 8:38:27 PM
Surr: DNOP	82.8	70-130	%Rec	1	8/8/2017 8:38:27 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2017 5:07:04 AM
Surr: BFB	105	54-150	%Rec	1	8/9/2017 5:07:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 5:07:04 AM
Toluene	ND	0.049	mg/Kg	1	8/9/2017 5:07:04 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2017 5:07:04 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2017 5:07:04 AM
Surr: 4-Bromofluorobenzene	132	66.6-132	%Rec	1	8/9/2017 5:07:04 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 10:27:09 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 35 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP12 @ 12'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-036
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/8/2017 9:03:23 PM
Surr: DNOP	89.0	70-130	%Rec	1	8/8/2017 9:03:23 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/9/2017 5:31:03 AM
Surr: BFB	87.8	54-150	%Rec	1	8/9/2017 5:31:03 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/9/2017 5:31:03 AM
Toluene	ND	0.047	mg/Kg	1	8/9/2017 5:31:03 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/9/2017 5:31:03 AM
Xylenes, Total	ND	0.095	mg/Kg	1	8/9/2017 5:31:03 AM
Surr: 4-Bromofluorobenzene	110	66.6-132	%Rec	1	8/9/2017 5:31:03 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 11:04:23 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 36 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP12 @ 14'

Project: CMU N INJ CMU 52 Collection Date: 8/1/2017 6:15:00 PM

Lab ID: 1708356-037 **Matrix:** SOIL **Received Date:** 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/9/2017 11:55:21 AM
Surr: DNOP	86.4	70-130	%Rec	1	8/9/2017 11:55:21 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2017 3:29:05 PM
Surr: BFB	89.2	54-150	%Rec	1	8/9/2017 3:29:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: AG
Benzene	ND	0.023	mg/Kg	1	8/9/2017 3:29:05 PM
Toluene	ND	0.046	mg/Kg	1	8/9/2017 3:29:05 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2017 3:29:05 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/9/2017 3:29:05 PM
Surr: 4-Bromofluorobenzene	119	66.6-132	%Rec	1	8/9/2017 3:29:05 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/8/2017 11:16:47 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 37 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP13 @ 2'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 7:10:00 PM

 Lab ID:
 1708356-038
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/9/2017 12:20:10 PM
Surr: DNOP	80.8	70-130	%Rec	1	8/9/2017 12:20:10 PM
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/9/2017 3:53:12 PM
Surr: BFB	88.7	54-150	%Rec	1	8/9/2017 3:53:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: AG
Benzene	ND	0.024	mg/Kg	1	8/9/2017 3:53:12 PM
Toluene	ND	0.047	mg/Kg	1	8/9/2017 3:53:12 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/9/2017 3:53:12 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/9/2017 3:53:12 PM
Surr: 4-Bromofluorobenzene	117	66.6-132	%Rec	1	8/9/2017 3:53:12 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	650	30	mg/Kg	20	8/8/2017 11:29:11 PM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 38 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SP13 @ 3'

CLIENT: CM Services CMU N INJ CMU 52 **Collection Date:** 8/1/2017 7:10:00 PM **Project:**

Lab ID: 1708356-039 Matrix: SOIL Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/9/2017 12:45:04 PM
Surr: DNOP	80.2	70-130	%Rec	1	8/9/2017 12:45:04 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2017 4:17:13 PM
Surr: BFB	90.0	54-150	%Rec	1	8/9/2017 4:17:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: AG
Benzene	ND	0.023	mg/Kg	1	8/9/2017 4:17:13 PM
Toluene	ND	0.046	mg/Kg	1	8/9/2017 4:17:13 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2017 4:17:13 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/9/2017 4:17:13 PM
Surr: 4-Bromofluorobenzene	119	66.6-132	%Rec	1	8/9/2017 4:17:13 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 2:57:00 AM

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 39 of 0J
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP13 @ 14'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 7:10:00 PM

 Lab ID:
 1708356-040
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **TOM** Diesel Range Organics (DRO) 9.7 mg/Kg 8/9/2017 1:10:06 PM 1 Surr: DNOP 85.9 70-130 %Rec 1 8/9/2017 1:10:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: AG Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 8/9/2017 4:41:15 PM Surr: BFB 86.7 54-150 %Rec 1 8/9/2017 4:41:15 PM **EPA METHOD 8021B: VOLATILES** Analyst: AG 8/9/2017 4:41:15 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 8/9/2017 4:41:15 PM 1 Ethylbenzene ND 0.047 mg/Kg 8/9/2017 4:41:15 PM ND Xylenes, Total 0.095 mg/Kg 8/9/2017 4:41:15 PM 1 Surr: 4-Bromofluorobenzene 115 66.6-132 %Rec 8/9/2017 4:41:15 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 8/10/2017 3:59:04 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 40 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP14 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:10:00 PM

 Lab ID:
 1708356-041
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	130	9.9	mg/Kg	1	8/9/2017 2:00:16 PM
Surr: DNOP	88.9	70-130	%Rec	1	8/9/2017 2:00:16 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 2:43:18 PM
Surr: BFB	95.9	54-150	%Rec	1	8/8/2017 2:43:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 2:43:18 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 2:43:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 2:43:18 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 2:43:18 PM
Surr: 4-Bromofluorobenzene	117	66.6-132	%Rec	1	8/8/2017 2:43:18 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	460	30	mg/Kg	20	8/10/2017 4:36:18 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 41 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP14 @ 5'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:00:00 PM

 Lab ID:
 1708356-042
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/9/2017 3:15:45 PM
Surr: DNOP	87.2	70-130	%Rec	1	8/9/2017 3:15:45 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 3:55:30 PM
Surr: BFB	94.3	54-150	%Rec	1	8/8/2017 3:55:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 3:55:30 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 3:55:30 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 3:55:30 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 3:55:30 PM
Surr: 4-Bromofluorobenzene	117	66.6-132	%Rec	1	8/8/2017 3:55:30 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	330	30	mg/Kg	20	8/10/2017 4:48:43 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 42 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP14 @ 15'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-043
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/9/2017 3:40:57 PM
Surr: DNOP	92.7	70-130	%Rec	1	8/9/2017 3:40:57 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2017 5:07:50 PM
Surr: BFB	91.2	54-150	%Rec	1	8/8/2017 5:07:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 5:07:50 PM
Toluene	ND	0.046	mg/Kg	1	8/8/2017 5:07:50 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/8/2017 5:07:50 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/8/2017 5:07:50 PM
Surr: 4-Bromofluorobenzene	112	66.6-132	%Rec	1	8/8/2017 5:07:50 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 5:01:08 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 43 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP15 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-044
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/9/2017 4:05:53 PM
Surr: DNOP	86.9	70-130	%Rec	1	8/9/2017 4:05:53 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2017 5:31:56 PM
Surr: BFB	91.2	54-150	%Rec	1	8/8/2017 5:31:56 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 5:31:56 PM
Toluene	ND	0.049	mg/Kg	1	8/8/2017 5:31:56 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2017 5:31:56 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2017 5:31:56 PM
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	8/8/2017 5:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 5:13:33 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 44 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP15 @ 5'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-045
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/9/2017 4:31:00 PM
Surr: DNOP	87.2	70-130	%Rec	1	8/9/2017 4:31:00 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 5:56:01 PM
Surr: BFB	91.8	54-150	%Rec	1	8/8/2017 5:56:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 5:56:01 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 5:56:01 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 5:56:01 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/8/2017 5:56:01 PM
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	8/8/2017 5:56:01 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 5:25:58 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 45 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP15 @ 15'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:00:00 PM

 Lab ID:
 1708356-046
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/9/2017 2:54:29 PM
Surr: DNOP	92.7	70-130	%Rec	1	8/9/2017 2:54:29 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2017 6:20:06 PM
Surr: BFB	92.2	54-150	%Rec	1	8/8/2017 6:20:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 6:20:06 PM
Toluene	ND	0.046	mg/Kg	1	8/8/2017 6:20:06 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/8/2017 6:20:06 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/8/2017 6:20:06 PM
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	8/8/2017 6:20:06 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	36	30	mg/Kg	20	8/10/2017 5:38:23 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 46 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SP16 @ 2'

CLIENT: CM Services CMU N INJ CMU 52 **Collection Date:** 8/1/2017 6:10:00 PM **Project:**

Lab ID: 1708356-047 Matrix: SOIL Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/9/2017 2:32:14 PM
Surr: DNOP	96.0	70-130	%Rec	1	8/9/2017 2:32:14 PM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2017 8:44:13 PM
Surr: BFB	92.0	54-150	%Rec	1	8/8/2017 8:44:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 8:44:13 PM
Toluene	ND	0.046	mg/Kg	1	8/8/2017 8:44:13 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/8/2017 8:44:13 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/8/2017 8:44:13 PM
Surr: 4-Bromofluorobenzene	114	66.6-132	%Rec	1	8/8/2017 8:44:13 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 5:50:48 AM

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 47 of 0J
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP16 @ 3'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-048
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/9/2017 2:10:06 PM
Surr: DNOP	93.1	70-130	%Rec	1	8/9/2017 2:10:06 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 9:08:10 PM
Surr: BFB	90.2	54-150	%Rec	1	8/8/2017 9:08:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 9:08:10 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 9:08:10 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 9:08:10 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/8/2017 9:08:10 PM
Surr: 4-Bromofluorobenzene	110	66.6-132	%Rec	1	8/8/2017 9:08:10 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 6:28:02 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 48 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP16 @ 13'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-049
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **TOM** Diesel Range Organics (DRO) 9.7 mg/Kg 8/9/2017 1:47:49 PM 1 Surr: DNOP 93.3 70-130 %Rec 1 8/9/2017 1:47:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 8/8/2017 9:32:06 PM Surr: BFB 92.9 54-150 %Rec 1 8/8/2017 9:32:06 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/8/2017 9:32:06 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 8/8/2017 9:32:06 PM 1 Ethylbenzene ND 0.048 mg/Kg 8/8/2017 9:32:06 PM ND Xylenes, Total 0.095 mg/Kg 8/8/2017 9:32:06 PM 1 Surr: 4-Bromofluorobenzene 112 66.6-132 %Rec 8/8/2017 9:32:06 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 8/10/2017 6:40:27 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 49 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP17 @ 9'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-050
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA			Analyst: TOM		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/9/2017 1:25:43 PM
Surr: DNOP	94.6	70-130	%Rec	1	8/9/2017 1:25:43 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 9:56:00 PM
Surr: BFB	93.7	54-150	%Rec	1	8/8/2017 9:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 9:56:00 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 9:56:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 9:56:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/8/2017 9:56:00 PM
Surr: 4-Bromofluorobenzene	116	66.6-132	%Rec	1	8/8/2017 9:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 6:52:52 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 50 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: CM Services Client Sample ID: SP17 @ 10'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-051
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA		Analyst: TOM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2017 11:36:04 AM
Surr: DNOP	94.6	70-130	%Rec	1	8/10/2017 11:36:04 AM
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 10:19:53 PM
Surr: BFB	91.3	54-150	%Rec	1	8/8/2017 10:19:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 10:19:53 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 10:19:53 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 10:19:53 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/8/2017 10:19:53 PM
Surr: 4-Bromofluorobenzene	113	66.6-132	%Rec	1	8/8/2017 10:19:53 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 7:05:17 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 51 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP17 @ 17'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-052
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 9.3 mg/Kg 8/10/2017 12:44:56 PM 1 Surr: DNOP 98.5 70-130 %Rec 1 8/10/2017 12:44:56 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 8/8/2017 10:43:47 PM Surr: BFB 91.1 54-150 %Rec 1 8/8/2017 10:43:47 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/8/2017 10:43:47 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 8/8/2017 10:43:47 PM 1 Ethylbenzene ND 0.047 mg/Kg 8/8/2017 10:43:47 PM ND 8/8/2017 10:43:47 PM Xylenes, Total 0.095 mg/Kg 1 Surr: 4-Bromofluorobenzene 113 66.6-132 %Rec 8/8/2017 10:43:47 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 8/10/2017 7:17:41 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 52 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP18 @ 3'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 5:11:00 PM

 Lab ID:
 1708356-053
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses Result **PQL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 9.8 mg/Kg 8/10/2017 1:07:12 PM 1 Surr: DNOP 91.5 70-130 %Rec 1 8/10/2017 1:07:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 8/8/2017 11:07:44 PM Surr: BFB 93.2 54-150 %Rec 1 8/8/2017 11:07:44 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA 8/8/2017 11:07:44 PM Benzene ND 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 8/8/2017 11:07:44 PM 1 Ethylbenzene ND 0.049 mg/Kg 8/8/2017 11:07:44 PM ND Xylenes, Total 0.098 mg/Kg 8/8/2017 11:07:44 PM 1 Surr: 4-Bromofluorobenzene 115 66.6-132 %Rec 8/8/2017 11:07:44 PM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 570 30 mg/Kg 20 8/10/2017 7:30:06 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 53 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP18 @ 4'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-054
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/10/2017 1:29:17 PM
Surr: DNOP	87.5	70-130	%Rec	1	8/10/2017 1:29:17 PM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2017 11:31:39 PM
Surr: BFB	91.7	54-150	%Rec	1	8/8/2017 11:31:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	8/8/2017 11:31:39 PM
Toluene	ND	0.048	mg/Kg	1	8/8/2017 11:31:39 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/8/2017 11:31:39 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2017 11:31:39 PM
Surr: 4-Bromofluorobenzene	113	66.6-132	%Rec	1	8/8/2017 11:31:39 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 7:42:31 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 54 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CM Services

Client Sample ID: SP18 @ 14'

 Project:
 CMU N INJ CMU 52
 Collection Date: 8/1/2017 6:10:00 PM

 Lab ID:
 1708356-055
 Matrix: SOIL
 Received Date: 8/5/2017 12:00:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	NGE ORGANIC	S			Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/10/2017 1:51:28 PM
Surr: DNOP	91.4	70-130	%Rec	1	8/10/2017 1:51:28 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2017 11:55:32 PM
Surr: BFB	93.3	54-150	%Rec	1	8/8/2017 11:55:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.023	mg/Kg	1	8/8/2017 11:55:32 PM
Toluene	ND	0.046	mg/Kg	1	8/8/2017 11:55:32 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/8/2017 11:55:32 PM
Xylenes, Total	ND	0.092	mg/Kg	1	8/8/2017 11:55:32 PM
Surr: 4-Bromofluorobenzene	117	66.6-132	%Rec	1	8/8/2017 11:55:32 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	8/10/2017 7:54:55 AM

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 55 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced. O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) closed) (quarters are smallest to largest) (NA

(NAD83 UTM in meters)

(In feet)

POD

		Sub-		Q	Q	Q						Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DepthWellDepthWater Column
RA 11936 POD1			LE	1	4	1	19	17S	33E	621246	3632321	92
RA 11937 POD1			LE	1	4	1	19	178	33E	621244	3632281	95
RA 11957 POD1			LE	3	4	1	19	178	33E	621177	3632200	55

Average Depth to Water

Minimum Depti:

Maximum Depth:

Record Count: 3

PLSS Search:

Section(s): 19

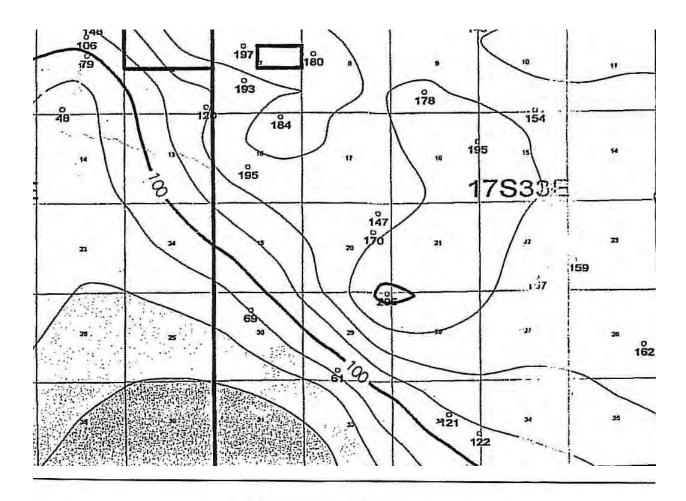
Township: 17S

Range: 33E

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

8/7/17 11:53 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



ChevronTexaco

Lea Co. Depth To Ground Water Water Wells Facilities

Wayne Johnson		**	2/9/2005
	Scale 1:85691.46		

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifi	catior	and Co	orrective A	ction	1			
										Final Repor		
Name of Co		Contact Aaron Hickert										
		der Blvd Ho #052 (neares	Telephone No. 432-363-9496 Facility Type Injection line									
		7002 (neures	· wen sin				- Injection in		1			
Surface Ow	mer State			Mineral (Owner	_State			API No	30-025-0	11480	
						OF REI						
Unit Letter G						South Line	Feet from the 1980	East/V E	Vest Line	County Lea		
				Latitude	32.822	Longitude	<u>-103.7003</u>					
				NAT	TURE	OF RELI						
Type of Rele Source of Re						Volume of Release 30 Bbl Volume Recovered 0 Date and Hour of Occurrence Date and Hour of Discovery						
Source of Ke	rease inject	ion ithe				7/27/2017,				Hour of Dis 7, 11:30am	covery	
Was Immedi	ate Notice C			1		If YES, To	Whom?					
-			Yes _	No Not R	equired		Maxi Brown, p		11			
By Whom? I Was a Water							lour 7/27/2017, 2 lume Impacting t		rcourse			
7745 4 774161			Yes 🗵	No		11 125, 10	rame impacting t	ine wate	recurse.			
If a Watercon	ırse was Im	pacted, Descri	be Fully.*	•		RFC	EIVED					
							livia Yu at	10:4	9 am,	Aug 01	, 201	7
Received a	low press		nd shutd	own at approx			ection pump at	the CN	AU North	location.	I starte	d to look
for leak an	d found ar	injection t	runk line	e leak near the	CMU 5	32 well site a	around noon.					
		and Cleanup A			ละ ทกระ	ible) and d	elineation star	ted. Sa	mnles nu	lled for ve	rtical	
				when we get sa			on the state of th	ica: Da	p.co p.c			
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to th	e best of my	knowledge and u	nderstan	d that purs	uant to NM(OCD rul	es and
regulations al	l operators	are required to	report an	d/or file certain r	elease no	tifications an	d perform correc	tive acti	ons for rele	eases which	may enc	langer
							rked as "Final Re on that pose a thre					
							the operator of i					
federal, state,	or local lav	vs and/or regu	lations.									
Signature:		1 Si	X	7		OIL CONSERVATION DIVISION						
Printed Name	: Aaron Hi	ckert			A	Approved by Environmental Specialist:						
Title: Sr. EH	&S Repres	entative			A	Approval Date	8/1/2017	E	xpiration l	Date:		
E-mail Addre	E-mail Address: ahickert@linnenergy.com						Conditions of Approval:					
Date: 7/	3/2	017	432-363-9496			ached direc	tive		Attached	<u>'</u>		
Attach Addit	Attach Additional Sheets If Necessary											

1RP-4773

nOY1721339685

pOY1721340114

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _7/31/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4773__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _9/1/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us