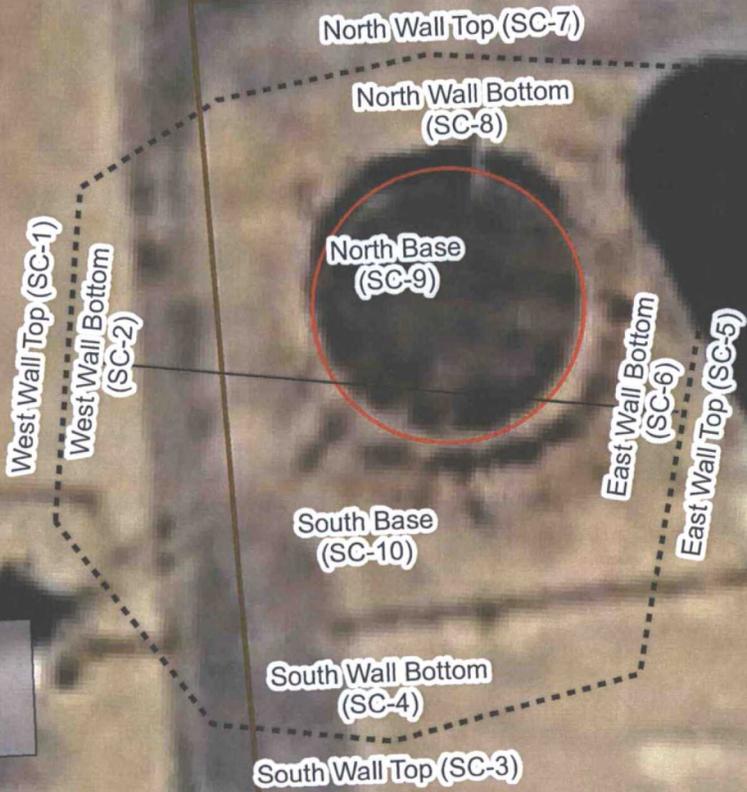


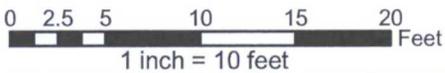
Legend

-  Approximate Inner Wall of Excavation
-  Above Ground Storage Tank (AGT)
-  Below Grade Tank (BGT)
-  Berm
-  Separator



Source: Google Maps

Rule Engineering, LLC
Solutions to Regulations for Industry



I-S22-T29N-R10W
N36.70986, W107.86652
San Juan County, NM
API: 30-045-25702

Figure A
Site Assessment Map
Albright #11



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

December 13, 2017

Heather Woods
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: HEC Albright 11

OrderNo.: 1712163

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/5/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-1

Project: HEC Albright 11

Collection Date: 12/4/2017 11:20:00 AM

Lab ID: 1712163-001

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/12/2017 2:16:53 PM	35429
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2017 2:16:53 PM	35429
Surr: DNOP	111	70-130		%Rec	1	12/12/2017 2:16:53 PM	35429
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2017 9:58:55 AM	35409
Surr: BFB	120	15-316		%Rec	1	12/11/2017 9:58:55 AM	35409
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2017 9:58:55 AM	35409
Toluene	ND	0.049		mg/Kg	1	12/11/2017 9:58:55 AM	35409
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2017 9:58:55 AM	35409
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2017 9:58:55 AM	35409
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/11/2017 9:58:55 AM	35409

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1712163

Date Reported: 12/13/2017

CLIENT: Rule Engineering LLC

Client Sample ID: SC-2

Project: HEC Albright 11

Collection Date: 12/4/2017 11:10:00 AM

Lab ID: 1712163-002

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/11/2017 6:31:34 PM	35365
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/11/2017 6:31:34 PM	35365
Surr: DNOP	102	70-130		%Rec	1	12/11/2017 6:31:34 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/7/2017 1:38:36 PM	35357
Surr: BFB	111	15-316		%Rec	1	12/7/2017 1:38:36 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/7/2017 1:38:36 PM	35357
Toluene	ND	0.048		mg/Kg	1	12/7/2017 1:38:36 PM	35357
Ethylbenzene	ND	0.048		mg/Kg	1	12/7/2017 1:38:36 PM	35357
Xylenes, Total	ND	0.097		mg/Kg	1	12/7/2017 1:38:36 PM	35357
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/7/2017 1:38:36 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project: HEC Albright 11

Collection Date: 12/4/2017 11:35:00 AM

Lab ID: 1712163-003

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/11/2017 6:55:35 PM	35365
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/11/2017 6:55:35 PM	35365
Surr: DNOP	101	70-130		%Rec	1	12/11/2017 6:55:35 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2017 5:59:25 PM	35357
Surr: BFB	108	15-316		%Rec	1	12/7/2017 5:59:25 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/7/2017 5:59:25 PM	35357
Toluene	ND	0.047		mg/Kg	1	12/7/2017 5:59:25 PM	35357
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2017 5:59:25 PM	35357
Xylenes, Total	ND	0.095		mg/Kg	1	12/7/2017 5:59:25 PM	35357
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	12/7/2017 5:59:25 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: HEC Albright 11
Lab ID: 1712163-004

Matrix: SOIL

Client Sample ID: SC-4
Collection Date: 12/4/2017 11:40:00 AM
Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/11/2017 7:19:25 PM	35365
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/11/2017 7:19:25 PM	35365
Surr: DNOP	102	70-130		%Rec	1	12/11/2017 7:19:25 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2017 7:10:05 PM	35357
Surr: BFB	106	15-316		%Rec	1	12/7/2017 7:10:05 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/7/2017 7:10:05 PM	35357
Toluene	ND	0.047		mg/Kg	1	12/7/2017 7:10:05 PM	35357
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2017 7:10:05 PM	35357
Xylenes, Total	ND	0.095		mg/Kg	1	12/7/2017 7:10:05 PM	35357
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/7/2017 7:10:05 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-5

Project: HEC Albright 11

Collection Date: 12/4/2017 11:50:00 AM

Lab ID: 1712163-005

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	78	9.5		mg/Kg	1	12/12/2017 1:03:29 PM	35365
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	12/12/2017 1:03:29 PM	35365
Surr: DNOP	114	70-130		%Rec	1	12/12/2017 1:03:29 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2017 7:33:36 PM	35357
Surr: BFB	106	15-316		%Rec	1	12/7/2017 7:33:36 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/7/2017 7:33:36 PM	35357
Toluene	ND	0.046		mg/Kg	1	12/7/2017 7:33:36 PM	35357
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2017 7:33:36 PM	35357
Xylenes, Total	ND	0.093		mg/Kg	1	12/7/2017 7:33:36 PM	35357
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/7/2017 7:33:36 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-6

Project: HEC Albright 11

Collection Date: 12/4/2017 11:54:00 AM

Lab ID: 1712163-006

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	130	9.6		mg/Kg	1	12/12/2017 11:50:27 AM	35365
Motor Oil Range Organics (MRO)	310	48		mg/Kg	1	12/12/2017 11:50:27 AM	35365
Surr: DNOP	103	70-130		%Rec	1	12/12/2017 11:50:27 AM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2017 7:57:03 PM	35357
Surr: BFB	104	15-316		%Rec	1	12/7/2017 7:57:03 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/7/2017 7:57:03 PM	35357
Toluene	ND	0.047		mg/Kg	1	12/7/2017 7:57:03 PM	35357
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2017 7:57:03 PM	35357
Xylenes, Total	ND	0.094		mg/Kg	1	12/7/2017 7:57:03 PM	35357
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	12/7/2017 7:57:03 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: HEC Albright 11
Lab ID: 1712163-007

Matrix: SOIL

Client Sample ID: SC-7
Collection Date: 12/4/2017 12:26:00 PM
Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/11/2017 8:31:09 PM	35365
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/11/2017 8:31:09 PM	35365
Surr: DNOP	103	70-130		%Rec	1	12/11/2017 8:31:09 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2017 8:20:30 PM	35357
Surr: BFB	105	15-316		%Rec	1	12/7/2017 8:20:30 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/7/2017 8:20:30 PM	35357
Toluene	ND	0.050		mg/Kg	1	12/7/2017 8:20:30 PM	35357
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2017 8:20:30 PM	35357
Xylenes, Total	ND	0.099		mg/Kg	1	12/7/2017 8:20:30 PM	35357
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/7/2017 8:20:30 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Rule Engineering LLC**Client Sample ID:** SC-8**Project:** HEC Albright 11**Collection Date:** 12/4/2017 12:20:00 PM**Lab ID:** 1712163-008**Matrix:** SOIL**Received Date:** 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	34	9.1		mg/Kg	1	12/12/2017 12:14:49 PM	35365
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	12/12/2017 12:14:49 PM	35365
Surr: DNOP	105	70-130		%Rec	1	12/12/2017 12:14:49 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2017 8:43:52 PM	35357
Surr: BFB	104	15-316		%Rec	1	12/7/2017 8:43:52 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/7/2017 8:43:52 PM	35357
Toluene	ND	0.047		mg/Kg	1	12/7/2017 8:43:52 PM	35357
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2017 8:43:52 PM	35357
Xylenes, Total	ND	0.094		mg/Kg	1	12/7/2017 8:43:52 PM	35357
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	12/7/2017 8:43:52 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: HEC Albright 11
Lab ID: 1712163-009

Matrix: SOIL

Client Sample ID: SC-9
Collection Date: 12/4/2017 11:45:00 AM
Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	57	9.6		mg/Kg	1	12/12/2017 12:39:03 PM	35365
Motor Oil Range Organics (MRO)	170	48		mg/Kg	1	12/12/2017 12:39:03 PM	35365
Surr: DNOP	105	70-130		%Rec	1	12/12/2017 12:39:03 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2017 9:07:15 PM	35357
Surr: BFB	105	15-316		%Rec	1	12/7/2017 9:07:15 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/7/2017 9:07:15 PM	35357
Toluene	ND	0.047		mg/Kg	1	12/7/2017 9:07:15 PM	35357
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2017 9:07:15 PM	35357
Xylenes, Total	ND	0.093		mg/Kg	1	12/7/2017 9:07:15 PM	35357
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	12/7/2017 9:07:15 PM	35357

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-10

Project: HEC Albright 11

Collection Date: 12/4/2017 12:10:00 PM

Lab ID: 1712163-010

Matrix: SOIL

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/11/2017 9:42:30 PM	35365
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/11/2017 9:42:30 PM	35365
Surr: DNOP	104	70-130		%Rec	1	12/11/2017 9:42:30 PM	35365
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2017 9:30:42 PM	35357
Surr: BFB	105	15-316		%Rec	1	12/7/2017 9:30:42 PM	35357
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/7/2017 9:30:42 PM	35357
Toluene	ND	0.046		mg/Kg	1	12/7/2017 9:30:42 PM	35357
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2017 9:30:42 PM	35357
Xylenes, Total	ND	0.093		mg/Kg	1	12/7/2017 9:30:42 PM	35357
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	12/7/2017 9:30:42 PM	35357

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163

13-Dec-17

Client: Rule Engineering LLC

Project: HEC Albright 11

Sample ID	LCS-35365	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	35365	RunNo:	47518					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1520345	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	73.2	114			
Surr: DNOP	4.5		5.000		89.3	70	130			

Sample ID	MB-35365	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	35365	RunNo:	47518					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1520346	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.2	70	130			

Sample ID	LCS-35429	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	35429	RunNo:	47697					
Prep Date:	12/11/2017	Analysis Date:	12/12/2017	SeqNo:	1525049	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.1	73.2	114			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID	MB-35429	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	35429	RunNo:	47697					
Prep Date:	12/11/2017	Analysis Date:	12/12/2017	SeqNo:	1525050	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID	1712163-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	35429	RunNo:	47697					
Prep Date:	12/11/2017	Analysis Date:	12/12/2017	SeqNo:	1525972	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.9	49.41	2.474	81.3	55.8	125			
Surr: DNOP	4.8		4.941		97.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163
 13-Dec-17

Client: Rule Engineering LLC
 Project: HEC Albright 11

Sample ID: 1712163-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SC-1	Batch ID: 35429	RunNo: 47697								
Prep Date: 12/11/2017	Analysis Date: 12/12/2017	SeqNo: 1525973 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.64	2.474	88.6	55.8	125	2.70	20	
Surr: DNOP	4.7		4.664		101	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163

13-Dec-17

Client: Rule Engineering LLC
Project: HEC Albright 11

Sample ID	MB-35357	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521467	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	15	316			

Sample ID	LCS-35357	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521468	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	75.9	131			
Surr: BFB	1200		1000		124	15	316			

Sample ID	1712163-003AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521471	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	77.8	128			
Surr: BFB	1200		1000		120	15	316			

Sample ID	1712163-003AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521472	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.22	0	116	77.8	128	2.53	20	
Surr: BFB	1200		969.0		120	15	316	0	0	

Sample ID	MB-35409	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523843	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	15	316			

Sample ID	LCS-35409	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523844	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163

13-Dec-17

Client: Rule Engineering LLC

Project: HEC Albright 11

Sample ID	LCS-35409	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523844	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	75.9	131			
Sur: BFB	1200		1000		122	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163

13-Dec-17

Client: Rule Engineering LLC

Project: HEC Albright 11

Sample ID	MB-35357	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521499	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-35357	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521500	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	77.3	128			
Toluene	1.1	0.050	1.000	0	107	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.1	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID	1712163-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-2	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521502	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9302	0	108	80.9	132			
Toluene	1.0	0.047	0.9302	0	111	79.8	136			
Ethylbenzene	1.0	0.047	0.9302	0	109	79.4	140			
Xylenes, Total	3.0	0.093	2.791	0	108	78.5	142			
Surr: 4-Bromofluorobenzene	1.0		0.9302		111	80	120			

Sample ID	1712163-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-2	Batch ID:	35357	RunNo:	47604					
Prep Date:	12/6/2017	Analysis Date:	12/7/2017	SeqNo:	1521503	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9398	0	107	80.9	132	0.713	20	
Toluene	1.0	0.047	0.9398	0	109	79.8	136	0.495	20	
Ethylbenzene	1.0	0.047	0.9398	0	107	79.4	140	0.624	20	
Xylenes, Total	3.0	0.094	2.820	0	106	78.5	142	0.621	20	
Surr: 4-Bromofluorobenzene	1.0		0.9398		109	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712163

13-Dec-17

Client: Rule Engineering LLC

Project: HEC Albright 11

Sample ID	MB-35409	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523870	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-35409	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523871	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.9	77.3	128			
Toluene	0.92	0.050	1.000	0	92.3	79.2	125			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80.7	127			
Xylenes, Total	2.6	0.10	3.000	0	85.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	1712163-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523873	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.023	0.9234	0	92.6	80.9	132			
Toluene	0.86	0.046	0.9234	0	93.3	79.8	136			
Ethylbenzene	0.84	0.046	0.9234	0	91.4	79.4	140			
Xylenes, Total	2.5	0.092	2.770	0.02334	89.7	78.5	142			
Surr: 4-Bromofluorobenzene	1.0		0.9234		108	80	120			

Sample ID	1712163-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	35409	RunNo:	47674					
Prep Date:	12/8/2017	Analysis Date:	12/11/2017	SeqNo:	1523874	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9872	0	93.8	80.9	132	7.91	20	
Toluene	0.93	0.049	0.9872	0	94.2	79.8	136	7.70	20	
Ethylbenzene	0.91	0.049	0.9872	0	92.1	79.4	140	7.50	20	
Xylenes, Total	2.7	0.099	2.962	0.02334	91.6	78.5	142	8.68	20	
Surr: 4-Bromofluorobenzene	1.1		0.9872		109	80	120	0	0	

Qualifiers:

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



Sample Log-In Check List

Client Name: **RULE ENGINEERING LL**

Work Order Number: **1712163**

RcptNo: **1**

Received By: **Anne Thorne**

12/5/2017 7:00:00 AM

Anne Thorne

Completed By: **Anne Thorne**

12/5/2017 9:39:06 AM

Anne Thorne

Reviewed By: **ENM**

12/6/17

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? _____ Checked by: _____
--

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Client: Rule Engineering, LLC

Standard Rush

Project Name:

Mailing Address: 501 Airport Dr., Ste 205

HEC Albright #11

Farmington, NM 87401

Project #:

Phone #: (505) 716-2787

Project Manager:

email or Fax#: hwoods@ruleengineering.com

QA/QC Package:

Heather Woods

Standard Level 4 (Full Validation)

Accreditation

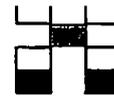
Sampler: Heather Woods

NELAP Other _____

On Ice: Yes No

EDD (Type) _____

Sample Temperature: 17.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
12/4/17	1120	Soil	SC-1	(1) 4oz Glass	Non	701	X	X											
12/4/17	1110	Soil	SC-2	(1) 4oz Glass	Non	702	X	X											
12/4/17	1135	Soil	SC-3	(1) 4oz Glass	Non	703	X	X											
12/4/17	1140	Soil	SC-4	(1) 4oz Glass	Non	704	X	X											
12/4/17	1150	Soil	SC-5	(1) 4oz Glass	Non	705	X	X											
12/4/17	1154	Soil	SC-6	(1) 4oz Glass	Non	706	X	X											
12/4/17	1226	Soil	SC-7	(1) 4oz Glass	Non	707	X	X											
12/4/17	1220	Soil	SC-8	(1) 4oz Glass	Non	708	X	X											
12/4/17	1145	Soil	SC-9	(1) 4oz Glass	Non	709	X	X											
12/4/17	1210	Soil	SC-10	(1) 4oz Glass	Non	710	X	X											
NPS Ho																			

Date: 12/4/17 Time: 1640 Relinquished by: Heath M. Woods

Received by: [Signature] Date: 12/4/17 Time: 1640

Remarks: Direct Bill to Hilcorp
c/o Clara Cardoza
ccardoza@hilcorp.com

Date: 12/4/17 Time: 1949 Relinquished by: [Signature]

Received by: [Signature] Date: 12/05/17 Time: 0700

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