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

OIL CONS. DIV DIST. 3

JUL 08 2016

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

1220 5. 51. 1141015	Dr., Dana	are, 1991 0750	5	S	anta F	Fe, NM 875	505						
			Rel	ease Notifi	catio	n and Co	orrective A	Action					
						OPERA	TOR		🗌 Initi	al Report	\boxtimes	Final Re	
Name of Com				1		Contact: Steve Moskal							
Address: 200 1	~-			and the state of t			No.: 505-326-9						
Facility Name	: Galleg	os Canyon	Unit 2421	3		Facility Typ	be: Natural gas	well					
Surface Owner	r: Feder	al	1.151	Mineral	Owner:	Federal			API No	. 30045239	901		
				LOC	ATIO	N OF RE	FASE						
State and a state of the state	Section	Township 28N	Range 12W	Feet from the 1,600		n/South Line	Feet from the 1,455	East/W West	est Line	County: S	an Juan	1	
		Latit	ude 36.	64497°		Longitude	e -108.06758°	0					
					PTIDE	_							
whe of Release	· Natural	Gas Conden	sate and o	ALL PORCE TURN		Volume of	EASE Release: Unknov	wn	Volume	Recovered: n	one		
Type of Release: Natural Gas Condensate and other production fluids Source of Release: Failed sidewall of BGT							Hour of Occurren			Hour of Dis		May 1.	
						Unknown	iour or occurrent		2014, 11:				
Was Immediate	Notice C		Yes 🛛	No 🛛 Not R	equired	If YES, To	Whom?						
By Whom?						Date and H	Iour:	-				_	
Was a Watercou	irse Reac						lume Impacting	the Water	course.	A			
			Yes 🗵] No									
If a Watercourse	was Imj	pacted, Descr	ibe Fully.	k									
unrecorded. The Describe Area A soil was excavate	e hydroca ffected a ed and tr	arbon impacts and Cleanup A ansported off	were exc Action Tak site for la	was determined t avated and transp ten.* The former ndfarm treatment port, site diagram	earthen	ff site for land pit impacts w rmation labora	farm treatment. ere fully delineate atory samples we	ed and ex	cavated. A	total of 6,3	27 cubi	ic yards of	
egulations all op public health or t hould their oper	perators a the envir- cations ha ent. In ac	are required to onment. The ave failed to a ldition, NMO	o report an acceptance dequately CD accep	is true and comp d/or file certain r e of a C-141 repo investigate and r tance of a C-141	elease n ort by th emediat	otifications ar e NMOCD ma e contaminatio	ad perform correct arked as "Final R on that pose a thr e the operator of the	ctive actio ceport" do reat to gro responsib	ns for rele es not reli und water ility for co	eases which i eve the oper , surface was ompliance w	may end ator of ter, hun ith any	danger liability nan health	
ignature: 🍠	ter	Mu	2			OIL CONSERVATION DIVISION							
rinted Name: St	teve Mos	kal				Approved by	Environmental S	pecialist:		20	C	>	
itle: Field Envir	ronmenta	l Coordinato	r			Approval Date	12613	OI6 EX	piration I	Date:	-		
-mail Address:	steven.m	oskal@bp.co	m			Conditions of	Approval:			Attached			
Date: June 30, 20				5-326-9497		_	_		1.1	2. 1			
Attach Addition	al Sheet	ts If Necessa	ıry			N2K	151625	546	3				

BP America GCU 242E (K) Sec 24 – T28N – R12W San Juan County, New Mexico API: 30-045-23901

Summary Record of Impact Remediation

<u>May 1, 2014</u> Impacts discovered during closure of a 95 barrel below grade tank (BGT). Composite sample of soils immediately below tank (5' below surface grade) tested total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015 at 500 mg/Kg (diesel range organics) and 70 mg/Kg (gasoline range organics). TPH by U.S EPA Method 418.1 tested at 900 mg/Kg. The BGT appeared to have good integrity and the original source of impacts was identified as historical (i.e., discharges to unlined pits, a practice approved by all regulatory agencies at the time the well was drilled in 1980).

Site NMOCD/BLM closure standard determined at 100 ppm TPH based on:

Horizontal Distance to Dry Wash > 1,000 feet (0 points) Nearest Water Well > 1,000 feet (0 points) Depth to Groundwater < 50 feet (20 points)

April 14, 2016 Begin site remediation via excavation with trackhoe.

<u>April 15, 2016</u> Conduct initial closure sampling on the south center and exposed base of the current excavation. These samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 19, 2016</u> Conduct closure sampling on the west center exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 21, 2016</u> Sample impacts from a hydro-vac hole (labeled HV-3) advanced at a location west of the remedial excavation, adjacent to the paved access road. Lab TPH tested at 65 mg/Kg.

<u>April 22, 2016</u> Conduct closure sampling on the south sidewall, east side and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 26, 2016</u> Conduct closure sampling on the east sidewall and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 27, 2016</u> Conduct closure sampling on the north sidewall and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 28, 2016</u> Conduct closure sampling on the north sidewall (west end) and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>April 29, 2016</u> Conduct closure sampling on the west sidewall (north end). All samples pass on TPH, Benzene, Total BTEX and Chloride.

May 2, 2016 Conduct closure sampling on the southwest wall and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>May 3, 2016</u> Conduct closure sampling on the west sidewall (south end) and exposed base of the current excavation. All samples pass on TPH, Benzene, Total BTEX and Chloride.

<u>May 4, 2016</u> Based on cumulative lab test results, regulatory agencies (BLM, NMOCD and NNEPA) approve final closure and backfilling of remedial excavation. Final excavation size approximately 140' x 95' x 18' average depth.

<u>May 6, 2016</u> Complete backfilling operations. Total volume transported to Envirotech Landfarm = 6,327 cubic yards (Form C-138 Attached).

4/28/16- North Wall - West End Extension 6-pt Comp.(8'-18') OVM = 13.7 ppm TPH = ND

4/28/16- North Base - West End Extension 5-pt Comp @ 20' OVM = 1,977 ppm TPH = 7.4 ppm

4/29/16- West Wall: 9-pt Comp. OVM = 2,145 ppm TPH = 6.7 ppm

5/2/16- SW Corner Base - West Side 4-pt Comp. OVM = 445 ppm TPH = 5.3 ppm

5/2/16- SW Corner Base - East Side 4-pt Comp. OVM = 59.7 ppm TPH = Non-Detect

5/3/16- West Wall - South End 9-pt Comp. OVM = 2,421 ppm TPH = 10 ppm

5/3/16- Southwest Base 3-pt Comp. OVM = 235 ppm TPH = Non Detect

Google earth

5/2/16- SW Wall - East End 6-pt Comp. OVM = 640 ppm TPH = Non-Detect

5/2/16- SW Wall - West End 6-pt Comp. OVM = 1,064 ppm TPH = 14 ppm

> 4/21/16: HV-3 @ 16' OVM = 1,584 ppm TPH = 65 ppm

4/27/16- North Base - West End 5-pt Comp. OVM = 238 ppm TPH = Non-Detect 4/27/16- North Wall - Center West 4-pt Comp. OVM = 3.7 ppm TPH = Non-Detect

Line at 4 Depth

4/27/16- North Wall - East End 5-pt Comp. OVM = 2.3 ppm TPH = Non-Detect

4/27/16- North Base - East End 5-pt Comp. OVM = 9.1 ppm TPH = Non Detect

4/22/16- Mid North Base 5-pt Comp. OVM = 283 ppm TPH = Non-Detect (<13.3 ppm)

4/26/16- Extended East Base 5-pt Comp. OVM = 1.3 ppm TPH = Non-Detect (<14.8 ppm)

4/26/16- East SideWall 6-pt Comp. OVM = 1.6 ppm TPH = Non-Detect (<14.5 ppm)

> O GCU 242E

4/22/16- East Base 5-pt Comp. OVM = 631 ppm TPH = 9.3 ppm

4/22/16- East Side South Wall 5-pt Comp. OVM = 362 ppm TPH = Non-Detect (<13.3 ppm)

4/15/16- Excavation Base 6-pt Comp. OVM = 234 ppm TPH = ND

4/19/16- NW Base 5-pt Comp. OVM = 787 ppm TPH = 7.2 ppm

OVM = NA

TPH = 58 ppm

4/15/16- South Sidewall 5-pt Comp.

100 ft

GCU 242E



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

April 19, 2016 Nelson Velez Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1604704

Dear Nelson Velez:

RE: GCU #242E

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/16/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1604704
Date Reported: 4/19/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Blagg Engineering
 Client Sample ID: 6PC - EB @ 12' - 17'

 Project:
 GCU #242E
 Collection Date: 4/15/2016 2:20:00 PM

 Lab ID:
 1604704-004
 Matrix:
 MEOH (SOIL)
 Received Date: 4/16/2016 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	4/18/2016 11:42:02 AM	24860
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	5			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/18/2016 11:44:39 AM	24823
Surr: DNOP	86.1	70-130	%Rec	1	4/18/2016 11:44:39 AM	24823
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.4	mg/Kg	1	4/18/2016 11:05:30 AM	24836
Surr: BFB	95.8	80-120	%Rec	1	4/18/2016 11:05:30 AM	24836
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.036	0.027	mg/Kg	1	4/18/2016 11:05:30 AM	24836
Toluene	ND	0.054	mg/Kg	1	4/18/2016 11:05:30 AM	24836
Ethylbenzene	ND	0.054	mg/Kg	1	4/18/2016 11:05:30 AM	24836
Xylenes, Total	ND	0.11	mg/Kg	1	4/18/2016 11:05:30 AM	24836
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	4/18/2016 11:05:30 AM	24836

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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Lab Order 1604704

Date Reported: 4/19/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Blagg Engineering
 Client Sample ID: 5PC - SSW @ 10' - 13'

 Project:
 GCU #242E
 Collection Date: 4/15/2016 2:35:00 PM

 Lab ID:
 1604704-005
 Matrix:
 MEOH (SOIL)
 Received Date: 4/16/2016 8:00:00 AM

Result	PQL Qu	al Units	DF	Date Analyzed	Batch
				Analyst:	LGT
ND	30	mg/Kg	20	4/18/2016 11:54:26 AM	24860
SE ORGANICS	6			Analyst:	KJH
12	9.3	mg/Kg	1	4/18/2016 12:06:13 PM	24823
87.4	70-130	%Rec	1	4/18/2016 12:06:13 PM	24823
GE				Analyst:	NSB
46	19	mg/Kg	5	4/18/2016 11:28:56 AM	24836
118	80-120	%Rec	5	4/18/2016 11:28:56 AM	24836
				Analyst:	NSB
ND	0.095	mg/Kg	5	4/18/2016 11:28:56 AM	24836
0.57	0.19	mg/Kg	5	4/18/2016 11:28:56 AM	24836
0.22	0.19	mg/Kg	5	4/18/2016 11:28:56 AM	24836
2.1	0.38	mg/Kg	5	4/18/2016 11:28:56 AM	24836
100	80-120	%Rec	5	4/18/2016 11:28:56 AM	24836
	ND 5E ORGANICS 12 87.4 GE 46 118 ND 0.57 0.22 2.1	ND 30 SE ORGANICS 12 9.3 87.4 70-130 GE 46 19 118 80-120 ND 0.095 0.57 0.19 0.22 0.19 2.1 0.38	ND 30 mg/Kg SE ORGANICS 12 9.3 mg/Kg 87.4 70-130 %Rec GE 46 19 mg/Kg 118 80-120 %Rec ND 0.095 mg/Kg 0.57 0.19 mg/Kg 0.22 0.19 mg/Kg 2.1 0.38 mg/Kg	ND 30 mg/Kg 20 SE ORGANICS 12 9.3 mg/Kg 1 87.4 70-130 %Rec 1 GE 46 19 mg/Kg 5 118 80-120 %Rec 5 ND 0.095 mg/Kg 5 0.57 0.19 mg/Kg 5 0.22 0.19 mg/Kg 5 2.1 0.38 mg/Kg 5	ND 30 mg/Kg 20 4/18/2016 11:54:26 AM SE ORGANICS Analyst: 12 9.3 mg/Kg 1 4/18/2016 12:06:13 PM 87.4 70-130 %Rec 1 4/18/2016 12:06:13 PM 6E 9.3 mg/Kg 5 4/18/2016 12:06:13 PM 6E Analyst: Analyst: 46 19 mg/Kg 5 4/18/2016 11:28:56 AM 118 80-120 %Rec 5 4/18/2016 11:28:56 AM Analyst: ND 0.095 mg/Kg 5 4/18/2016 11:28:56 AM 0.57 0.19 mg/Kg 5 4/18/2016 11:28:56 AM 0.22 0.19 mg/Kg 5 4/18/2016 11:28:56 AM 2.1 0.38 mg/Kg 5 4/18/2016 11:28:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	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#: 1604704

Page 6 of 9

19-Apr-16

Client: Project:	Blagg GCU ‡	Engineering \$242E							
Sample ID Client ID:	MB-24860 PBS	SampType: MBLI Batch ID: 2486		TestCode: El RunNo: 3		300.0: Anion	S		
Prep Date:	4/18/2016	Analysis Date: 4/18	/2016	SeqNo: 1	035209	Units: mg/K	g		
Analyte	_	Result PQL S	PK value SPK Re	f Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5						-	
Sample ID	LCS-24860	SampType: LCS		TestCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 24860	D	RunNo: 3	3628				
Prep Date:	4/18/2016	Analysis Date: 4/18/	/2016	SeqNo: 1	035210	Units: mg/K	g		
Analyte		Result PQL S	PK value SPK Ret	Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0 94.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

WO#: 1604704

19-Apr-16

Hall Environme	ental Analysis Laborato	ry, Inc.	19-A
	g Engineering J #242E		
Sample ID LCS-24787	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 24787	RunNo: 33593	
Prep Date: 4/13/2016	Analysis Date: 4/18/2016	SeqNo: 1033599 Units: %Rec	
Analyte		Ŭ.	Qual
Surr: DNOP	4.3 5.000	86.8 70 130	-
Sample ID LCS-24823	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 24823	RunNo: 33593	
Prep Date: 4/18/2016	Analysis Date: 4/18/2016	SeqNo: 1033600 Units: mg/Kg	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	47 10 50.00	0 93.6 65.8 136	
Surr: DNOP	4.0 5.000	80.9 70 130	
Sample ID MB-24787	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 24787	RunNo: 33593	
Prep Date: 4/13/2016	Analysis Date: 4/18/2016	SeqNo: 1033601 Units: %Rec	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	9.5 10.00	95.1 70 130	
Sample ID MB-24823	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 24823	RunNo: 33593	
Prep Date: 4/18/2016	Analysis Date: 4/18/2016	SeqNo: 1033602 Units: mg/Kg	
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	8.4 10.00	84.4 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
- R RPD outside accepted recovery limits
- 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 9

- 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.

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

Qualifiers: *

- Н Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix

Value exceeds Maximum Contaminant Level.

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

Project: GCU #	Engineering 242E								
Sample ID MB-24836	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e
Client ID: PBS	Batc	h ID: 24	836	F	RunNo: 3	3600			
Prep Date: 4/15/2016	Analysis E	Date: 4	/18/2016	5	SeqNo: 1	033974	Units: mg/h	(g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	F
Gasoline Range Organics (GRO)	ND	5.0							

Surr: BFB	930	0.0	1000		93.4	80	120					
Sample ID LCS-24836	Samp	Type: LC	s	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 24836			F	RunNo: 33600							
Prep Date: 4/15/2016	Analysis [Date: 4	/18/2016	5	SeqNo: 1033975			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.8	80	120		1			
Surr: BFB	1000		1000		100	80	120					

Blagg Engineering Client.

WO#: 1604704

Qual

RPDLimit

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

Project: GCU #242E

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Sample ID MB-24836	Samp	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Bato	h ID: 24	836	F	RunNo: 33600						
Prep Date: 4/15/2016	Date: 4/15/2016 Analysis Date: 4/18/2016		8	SeqNo: 1034018 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.96		1.000	1.0	96.3	80	120				
Sample ID LCS-24836	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: 24	836	F	RunNo: 33600						
Prep Date: 4/15/2016	Analysis [Date: 4/	18/2016	5	SeqNo: 1	034019	Units: mg/M	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.025	1.000	0	88.5	75.3	123				
Toluene	0.87	0.050	1.000	0	87.1	80	124				
Ethylbenzene	0.87	0.050	1.000	0	87.4	82.8	121				
Kylenes, Total	2.6	0.10	3.000	0	87.8	83.9	122				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

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WO#: 1604704

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-	ental Analysis Labora 4901 Hawkins Albuguerque, NM 87 3975 FAX: 505-345-4 yw.hallenvironmental.	NE 105 Sam	ple Log-In Cl	neck List
Client Name: BLAG	nber: 1604704		RcptNo:	1
Received by/date: OHII6116 Logged By: Lindsay Mangin 4/16/2016 8:00:00	AM	Junker Maria		
Completed By: Lindsay Mangin 4/16/2016 10:10:1	1 AM	Junky Hopp		
Reviewed By: 04/10/16		V		
Chain of Custody		a	ente anne in e al alla d	(a)(*,*) *C (
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			
Londo				
4. Was an attempt made to cool the samples?	Yes	No 🗌		
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🐼	No 🗌		
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?	Yes 🖝	No 🗌	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)		-		>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🛃	No 🗌	Adjusted?	www.e
14. Is it clear what analyses were requested?	Yes 🛃	No L	Checked by:	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🛃	No 🛄		
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🛃	
Person Notified: Date	e: 1			
By Whom: Via:	,	hone 🗌 Fax	In Person	
Regarding:		NAME OF BEST		
Client Instructions:	un en la seconda en la seco		and an	
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp C Condition Seal Intact Seal No	Seal Date	Signed By		
1 2.7 Good Yes		an ar an ba tan it waana 1000 af af ar		

Page 1 of 1

Ch Client:			tody Record	Turn-Around 1		SAME													NT			
	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	Rush_	DAT													T	DR	Y	
Vailing Ad	ddrace.	D.O. 001	V 07		GCU # 242	DE											.con		0			
vialing A	uuress.	P.O. BO		Project #:	GCU # 242	26										-		7109	3			
			FIELD, NM 87413	rioject#.			-	Te	1. 50	5-34	5-3	1000	-	-	-		410					
Phone #:		(505) 63	2-1199	Design Manage				1				A	nar	ysis	Rec	lues	•L		-			
email or F				Project Manag	ger:			_	T				-	04)	s			300.1)				
QA/QC Par ✓ Standa			Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)	+ TPH (Gas only)	WHO !!			(SI)		PO4,S	2 PCB			water - 3			le	
Accreditat	tion:			Sampler:	NELSON VI	ELEZ nr	Sta	H (Ga	/ DRG+	F	17	8270SIMS)		NO2	808						sample	_
		□ Other		On Ice:	7 Yes		1	Hall	10	418	504		s	103,	es /		(AO)	300.0			te s	or N
	Type)	1		Sample Temp	erature: 2		4		(GR	pou	pou) or	etal	CI,N	icid	(AC	N-in	1		ple	posi	SZ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO UDUTY	BTEX + MT	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	# pt. composite	Air Bubbles (Y or N)
4/15/16	1325	SOIL	SW @ 9'	4 oz 1	Cool	-001	٧		۷									V		٧		
4/15/16	1328	SOIL	SW @ 7'	4 oz 1	Cool	-002	٧		٧									٧		٧		
4/15/16	1343	SOIL	SSE @ 12'	4 oz 1	Cool	-003	٧		۷									V		٧		
4/15/16	1420	SOIL	6PC - EB @ 12' - 17'	4 oz 1	Cool	-mi	V		V				-			-		V		_	6	_
-1-01-0	A THE O					un	V		w						-			W	H		-	
4/15/16	1435	SOIL	5PC - SSW @ 10' - 13'	4 oz 1	Cool	-005	٧		٧									V			5	
_																						
								-	-				-									
John:	Time:	Delinguish	ad hus	Destind by	1	Date Time	Por	nark		DILL	DIRE	TIVT	0.00	LICIN	CTUS	CIPCI	ED C	DAITA	CT WIT			
Date: 4/15/16	1707	Relinquish	In VI	Received by:	rephalt	- 4/15/10 7707	Kei	IIdi K	5.	COR	RESPO		IG VI	D&R		NCE #	WHE	N APP	ohn F	BLE;	ie	
Date:	Time:	Relinquish	Abt labolt	Received by:	- Nili	Date Time	Ref	feren	VID:		HIXC	NEV	'B2	L	MOS	6HQ	FEC	V	RITC	WFE	C	
1			voor pouro	1 14	V-11-1	and cours																

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 21, 2016 Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199

FAX (505) 632-3903

RE: GCU 242E

OrderNo.: 1604846

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/20/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1604846

Date Reported: 4/21/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Blagg Engineering
 Client Sample ID: NW Base 5-pt @ 17'

 Project:
 GCU 242E
 Collection Date: 4/19/2016 1:28:00 PM

 Lab ID:
 1604846-001
 Matrix:
 SOIL
 Received Date: 4/20/2016 7:30:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF Date Analyzed
 Batch

EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	43	30	mg/Kg	20	4/20/2016 11:05:41 AM	
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	6			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/20/2016 11:50:58 AM	24895
Surr: DNOP	74.1	70-130	%Rec	1	4/20/2016 11:50:58 AM	24895
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	7.2	4.8	mg/Kg	1	4/20/2016 9:52:27 AM	24879
Surr: BFB	109	80-120	%Rec	1	4/20/2016 9:52:27 AM	24879
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.043	0.024	mg/Kg	1	4/20/2016 9:52:27 AM	24879
Toluene	0.078	0.048	mg/Kg	1	4/20/2016 9:52:27 AM	24879
Ethylbenzene	ND	0.048	mg/Kg	1	4/20/2016 9:52:27 AM	24879
Xylenes, Total	0.24	0.096	mg/Kg	1	4/20/2016 9:52:27 AM	24879
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	4/20/2016 9:52:27 AM	24879

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	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:Blagg EngineeringProject:GCU 242E

Sample ID MB-24914	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 24914	RunNo: 33686		
Prep Date: 4/20/2016	Analysis Date: 4/20/2016	SeqNo: 1037587	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			1
Sample ID LCS-24914	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 24914	RunNo: 33686		
	Batch ID: 24914 Analysis Date: 4/20/2016	RunNo: 33686 SeqNo: 1037588	Units: mg/Kg	
	Analysis Date: 4/20/2016		Units: mg/Kg 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
- R RPD outside accepted recovery limits
- 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

Page 2 of 5

WO#: 1604846

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU 242E

Sample ID MB-24895	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	D: 24	895	R	RunNo: 3	3652				
Prep Date: 4/20/2016	Analysis D	ate: 4/	20/2016	S	SeqNo: 1	036426	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.4		10.00		74.0	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
- R RPD outside accepted recovery limits
- 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

Page 3 of 5

WO#: 1604846

Hall Environmental Analysis Laboratory, Inc	Hall	Environmental	Analysis	Laboratory,	Inc.
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WO#: 1604846

21-Apr-16

Client: Blagg En Project: GCU 24	ngineering 2E
Sample ID MB-24879	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 24879 RunNo: 33661
Prep Date: 4/19/2016	Analysis Date: 4/20/2016 SeqNo: 1037062 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 950 1000 95.1 80 120
Sample ID LCS-24879	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 24879 RunNo: 33661
Prep Date: 4/19/2016	Analysis Date: 4/20/2016 SeqNo: 1037063 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00 0 98.3 80 120
Surr: BFB	1000 1000 102 80 120
Sample ID 5ML RB	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: R33661 RunNo: 33661
Prep Date:	Analysis Date: 4/20/2016 SeqNo: 1037085 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	950 1000 95.2 80 120
Sample ID 2.5UG GRO LCS	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: R33661 RunNo: 33661
Prep Date:	Analysis Date: 4/20/2016 SeqNo: 1037086 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1000 1000 103 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 5

- P Sample pH Not In RangeRL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall	Environmental	Analysis	Labora	tory, Inc.	
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Client: Blagg Engineering Project: GCU 242E

Sample ID MB-24879	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 24	879	F	RunNo: 3	3661				
Prep Date: 4/19/2016	Analysis [Date: 4	/20/2016	5	SeqNo: 1	037109	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120	-		
Sample ID LCS-24879	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 24	879	F	RunNo: 3	3661				
Prep Date: 4/19/2016	Analysis E	ate: 4/	20/2016	S	eqNo: 1	037110	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.3	123			
Foluene	0.94	0.050	1.000	0	93.8	80	124			
Ethylbenzene	0.88	0.050	1.000	0	88.4	82.8	121			
Kylenes, Total	2.6	0.10	3.000	0	87.7	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

Page 5 of 5

WO#: 1604846

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 1975 FAX: 505-345 w.hallenvironmental	s NE 7109 Sam 4107	ple Log-In Check List
Client Name: BLAGG Work Order Num	ber: 1604846		RcptNo: 1
Received by/date: Mar 04 20/16			
Logged By: Anne Thorne 4/20/2016 7:30:00	AM	anne Al-	-
Completed By: Anne Thorne 4/20/2016		anne Am	·
Reviewed By: 04/20/16			
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			
 Was an attempt made to cool the samples? 	Yes 🖌	No	
-, was an attempt made to cool the samples r	res 💌		
5. Were all samples received at a temperature of >0° C to 6.0° C	Yes 🗹	No 🗌	
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 viala have more headenees?	Vec 🗖	No 🗌	No VOA Vials 🗹
10.VOA vials have zero headspace? 11. Were any sample containers received broken?	Yes 🗌		
11, were any sample containers received broken?	165		# of preserved bottles checked
12. Does paperwork match bottle labels?	Yes 🗹	No 🗌	for pH:
(Note discrepancies on chain of custody)	1000	No 🗖	(<2 or >12 unless noted) Adjusted?
13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested?	Yes ⊻ Yes ✓	No 🗌	
15. Were all holding times able to be met?		No 🗌	Checked by:
(If no, notify customer for authorization.)	Yes ⊻		
Special Handling (if applicable)	-		
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date		A contractor and the	
By Whom: Via:	🗌 eMail 🔲 Pl	none 🗌 Fax	In Person
Regarding:			
Client Instructions:			
17. Additional remarks:			
18. <u>Cooler Information</u>			
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.4 Good Yes	1		

Page 1 of 1

			stody Record	Turn-Around T	īme:	ASAP				Н			E	vv	IR	0		1	NTA	AL.	
ent: 1	BP AM	ERICA		□ Standard	Rush	SAME DAL													TO		1
			eering Inc.	Project Name:						,	www	.hall	envi	ronn	nent	al.co	m				
	Address:			GC	U 242	LE		490	01 H	awki	ns N	E -	Alb	uque	erque	e, NN	N 87	109			÷.
				Project #:			1			5-34						345-					
one #	: 50	5- 32	0-1183				F.					A	naly	sis	Req	uest					
nail or	Fax#:			Project Manag	ger:		()	nly)	â					04)							
VQC F	Package: dard		Level 4 (Full Validation)	J.E			\$ (8021)	(Gas o	RO LH			SIMS)		PO4,S	2 PCB'						
credit NEL/	tation AP	Othe	er	Sampler: J	BLAGG	E No.	STENNE'S	+ TPH	SO / D	18.1)	04.1)	8270		03,NO2	\$ / 808		(A)				or N)
EDD	(Type)			Sample Terri	perature 2 r	1-LF-1.0=1.4	MILE	BE	GF	d 4	g po	0 or	etals	N'NC	sides	A	07-	W			Z
late	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO 1404 840	BTEX + MIL	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MED	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)	CHLORIDE			Air Bubbles (Y or N)
2016	1328	SOIL	NW BASE 5-pt @17'		COOL	-001	×		×									×			
										•										-	
					100 100 1															_	
				-			-														
_							-	-			-		-			-	-		-	+	+
				-			-		-		-		-	-		-				+	+
									-	-	-		-	-	-	-			\vdash	+	+
							+		-			-	+		-	\vdash				+	+
			-					-								-					
						10								T							
								T						1							
2016	Time:	Relinquis	1 Blogg	Received by:	halle	Date Time	Re	mark		34L	TAC	7 :	STE	EVE	Mos	SCAL	2				
2/12	Time:	Relinquis	the Waller	Received by:	hand	Date Time					VID	: 1	IM	US(6H	QFI	EC				

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



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

April 26, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 242E

OrderNo.: 1604976

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/22/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1604976

Date Reported: 4/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Blagg Engineering	Client Sample ID: HV-3@16'						
Project:	GCU 242E			Collection Date: 4/21/2016 3:42:00 PM				
Lab ID:	1604976-001	Matrix:	MEOH (SOIL)	Received Date: 4/22/2016 7:45:00 AM				

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3				Analyst:	том
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/22/2016 3:06:25 PM	24946
Surr: DNOP	71.1	70-130		%Rec	1	4/22/2016 3:06:25 PM	24946
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB
Gasoline Range Organics (GRO)	65	3.5		mg/Kg	1	4/22/2016 1:46:00 PM	24930
Surr: BFB	243	80-120	S	%Rec	1	4/22/2016 1:46:00 PM	24930
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	0.34	0.017		mg/Kg	1	4/22/2016 1:46:00 PM	24930
Toluene	1.8	0.035		mg/Kg	1	4/22/2016 1:46:00 PM	24930
Ethylbenzene	0.31	0.035		mg/Kg	1	4/22/2016 1:46:00 PM	24930
Xylenes, Total	2.7	0.070		mg/Kg	1	4/22/2016 1:46:00 PM	24930
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	4/22/2016 1:46:00 PM	24930

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 4
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	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.

Blagg Engineering Client: **GCU 242E Project:**

Sample ID LCS-24946 Client ID: LCSS		ype: LC		Tes	e Organics					
Prep Date: 4/22/2016	Analysis D	22/2016	5	SeqNo: 1	039133	Units: mg/k				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	65.8	136			
Surr: DNOP	3.6		5.000		72.4	70	130			
Sample ID MB-24946	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
									-	
Client ID: PBS	Batch	D: 24	946	F	RunNo: 3	3715				
	Batch Analysis D		946 22/2016		RunNo: 3: SeqNo: 10		Units: mg/K	g		
Prep Date: 4/22/2016			22/2016				Units: mg/K HighLimit	kg %RPD	RPDLimit	Qual
	Analysis D	ate: 4/	22/2016	S	SeqNo: 10	039134	, in the second s		RPDLimit	Qual

Qualifiers:

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

Page 2 of 4

WO#: 1604976

Hall Environmenta	l Analysis	Laboratory,	Inc.
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Client: Blagg Engineering Project: GCU 242E

Sample ID MB-24930 Client ID: PBS		ype: ME 1D: 24			TestCode: EPA Method 8015D: Gasoline Range RunNo: 33721						
Prep Date: 4/21/2016	Analysis Date: 4/22/2016			S	SeqNo: 1	038988	Units: mg/k				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 940	5.0	1000		94.3	80	120				
Sample ID LCS-24930	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	ID: 24	930	F	RunNo: 3	3721					
Prep Date: 4/21/2016	Analysis D	ate: 4/	22/2016	S	SeqNo: 1	038989	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	80	120				
Casoline Range Organics (Orco)											

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
- R RPD outside accepted recovery limits
- 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

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WO#: 1604976

Client: Blagg Engineering Project: GCU 242E

Sample ID MB-24930	Samp	Type: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: PBS	Batc	h ID: 24	930	F	RunNo: 33721						
Prep Date: 4/21/2016	Analysis I	Date: 4	/22/2016	5	SeqNo: 1	039000	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120				
Sample ID LCS-24930	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: 24	930	F	RunNo: 3	3721					
Prep Date: 4/21/2016	Analysis [Date: 4/	22/2016	5	SeqNo: 1	039001	Units: mg/h	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	109	75.3	123				
Toluene	1.0	0.050	1.000	0	101	80	124				
Ethylbenzene	0.96	0.050	1.000	0	95.5	82.8	121				
Kylenes, Total	2.8	0.10	3.000	0	94.3	83.9	122				
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

WO#: 1604976 26-Apr-16

n range quantitation limits

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hal	4901 Hawl querque, NM FAX: 505-34	kins NE 187109 Sam 15-4107	nple Log-In C	heck List
Client Name: BLAGG W	ork Order Number:	1604976		RoptNo:	1
Received by/date: Day 04/	122/16				·
Logged By: Joe Archuleta 4/22	/2016 7:45:00 AM		JEas-		
Completed By: Joe Archuleta 4/22	/2016 8:06:26 AM		JEllar JEllar		
Reviewed By: 30 64	22/10		1		
Chain of Custody	24 23 S		× ×		. 1
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗌	Not Present	3
2. Is Chain of Custody complete?		Yes 🐼	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
l la					
Log In			_	-	
4. Was an attempt made to cool the samples?		Yes 🛃	No 🗌	NA	
5. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes 🗹	No 🗌		
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 pre-	served?	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?		Yes 🕢	No 🗌	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)		_	-	the same second second second	>12 unless noted)
13. Are matrices correctly identified on Chain of Custo	dy?	Yes 🛃	No 🗌	Adjusted?	
14. Is it clear what analyses were requested? 15. Were all holding times able to be met?		Yes 🛃	No 🗌	Checked by:	
(If no, notify customer for authorization.)		Tes en		chicking by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with this ord	der?	Yes	No 🗌	NA 💌	
Person Notified:	Date		Constantion stantaneouslaw]	
By Whom:	Via:	eMail	Phone 🗌 Fax	In Person	
Regarding:	Encoder and a contract Rational or other				
Client Instructions:					
17. Additional remarks:	4 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1.12.1	1	
18. Cooler Information					
Cooler No Temp °C Condition Seal Inta	ct Seal No Se	al Date	Signed By		
1 1.2 Good Yes					
Page 1 of 1					

			stody Record	Turn-Around	Time:	2 D4	¥ 1				_								EN		
	BFA	Meric	a shreening	Standard Project Name	Rush	(By Man	day 4/25)		200 Store		A	N	AL	YS	IS	L	AE	SOF	TAS	OR	Y
45	BLAG	te En	sheeding	-		-					1	www	.hall	envi	ronn	nenta	al.co	m			
ailing	Address:	0	7 7	GC	U 242	E			49	01 H	awki	ns N	IE -	Albu	uque	erque	e, NM	A 871	09		
10	and and	1.2		Project #:					Te	el. 50	5-34	5-39	975	F	ax t	505-3	345-	4107			
hone #	t: 50	5-3	20-1183										A	naly	sis	Req	uest		P-F		
mail or	Fax#:			Project Mana	ger:			-	(ylu	0					([†] C						
AVQC F	ackage:			T	BLAGE			(8021)	IS OI	(OHMY)			6		4"S(B's					
(Stan	dard		Level 4 (Full Validation)					\$ (8	(Ga	202			SIM		B	2 PC					
ccredi		-			- Butble			CitiB's	+ TPH (Gas only)	DI/	(1)	÷.	013		NO2	808					Î
NEL		□ Othe	r	On Ice:			Le Galante	- +	+	SRO	418	504	r 82	S	103,	38/		(YO			or
EDD	(Type)		tothe dealers	Sample Tem	perature. 1.	Zara		MABE	TBE	B (0	pou	pot	10 0	leta	CI'N	cide	(YC	-ic			SR
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEA	L No.	BTEX + M	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
2/16	1542	SOIL	HV-3016	402×1	COUL	-00	1	X		×											
_																					
								,													
_			· · · · · · · · · · · · · · · · · · ·																		
		- 1-1-1																			
ate: 4/16 ate:	Time: 1620 Time: 1743	Relinquist	Blegg	Received by: Received by:	Holto acount	Date 4/21/11 Date 04/22/	Time 16 (174)		mark		Cont V		-1 6	iter Mi	re v DS i	Mos HG	cal 2Ft	ĒC			

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



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

April 26, 2016 Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1604A30

Dear Jeff Blagg:

RE: GCU 242E

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/23/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1604A30
Date Reported: 4/26/2016

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL	Qual	Units	DF Date Analyzed	Batch
Lab ID:	1604A30-001	Matrix:	MEOH (SO	OIL)	Received	Date: 4/23/2016 8:45:00 AM	
Project:	GCU 242E				Collection	Date: 4/22/2016 2:15:00 PM	
CLIENT:	Blagg Engineering			C	lient Samp	le ID: East Side South Wall 5	pt 10'-18'

EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	4/25/2016 11:38:04 AM	24978
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/25/2016 10:25:55 AM	24971
Surr: DNOP	105	70-130	%Rec	1	4/25/2016 10:25:55 AM	24971
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/25/2016 9:57:52 AM	24955
Surr: BFB	96.1	80-120	%Rec	1	4/25/2016 9:57:52 AM	24955
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.073	0.020	mg/Kg	1	4/25/2016 9:57:52 AM	24955
Toluene	0.12	0.040	mg/Kg	1	4/25/2016 9:57:52 AM	24955
Ethylbenzene	ND	0.040	mg/Kg	1	4/25/2016 9:57:52 AM	24955
Xylenes, Total	ND	0.081	mg/Kg	1	4/25/2016 9:57:52 AM	24955
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	4/25/2016 9:57:52 AM	24955

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

Qualifiers: *		Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 7
ND Not Detected at the Reporting Lim		Not Detected at the Reporting Limit	imit P Sample pH Not In Ran	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	S	% Recovery outside of range due to dilution or matrix		Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1604A30
Date Reported: 4/26/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: Mid North Base 5-pt @ 18'

 Project: GCU 242E
 Collection Date: 4/22/2016 2:26:00 PM

 Lab ID: 1604A30-002
 Matrix: MEOH (SOIL)
 Received Date: 4/23/2016 8:45:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch

rinary ses	ALCOUNT	* Q2 Q4	ur onito		Date I mary zeu	Daten
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	46	30	mg/Kg	20	4/25/2016 11:50:29 AM	24978
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/25/2016 10:47:48 AM	24971
Surr: DNOP	104	70-130	%Rec	1	4/25/2016 10:47:48 AM	24971
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/25/2016 10:21:20 AM	24955
Surr: BFB	97.1	80-120	%Rec	1	4/25/2016 10:21:20 AM	24955
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.078	0.020	mg/Kg	1	4/25/2016 10:21:20 AM	24955
Toluene	0.063	0.040	mg/Kg	1	4/25/2016 10:21:20 AM	24955
Ethylbenzene	ND	0.040	mg/Kg	1	4/25/2016 10:21:20 AM	24955
Xylenes, Total	ND	0.079	mg/Kg	1	4/25/2016 10:21:20 AM	24955
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	1	4/25/2016 10:21:20 AM	24955

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

Qualifiers: *	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded		Sample Diluted Due to Matrix	E	Value above quantitation range				
		J	Analyte detected below quantitation limits Page 2 of 7					
	ND Not Detected at the Reporting Limit		Р	Sample pH Not In Range				
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
S		% Recovery outside of range due to dilution or matrix		Sample container temperature is out of limit as specified				

Analytical Report Lab Order 1604A30 Date Reported: 4/26/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: East Base 5-pt @ 18'

 Project:
 GCU 242E
 Collection Date: 4/22/2016 2:29:00 PM

 Lab ID:
 1604A30-003
 Matrix: MEOH (SOIL)
 Received Date: 4/23/2016 8:45:00 AM

 Analyses
 Result
 POL
 Qual
 Units
 DE
 Date Analyzed

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	4/25/2016 12:02:54 PM	24978
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS					Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/25/2016 11:09:36 AM	24971
Surr: DNOP	104	70-130		%Rec	1	4/25/2016 11:09:36 AM	24971
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	9.3	4.0		mg/Kg	1	4/25/2016 10:44:47 AM	24955
Surr: BFB	124	80-120	S	%Rec	1	4/25/2016 10:44:47 AM	24955
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	0.037	0.020		mg/Kg	1	4/25/2016 10:44:47 AM	24955
Toluene	0.12	0.040		mg/Kg	1	4/25/2016 10:44:47 AM	24955
Ethylbenzene	ND	0.040		mg/Kg	1	4/25/2016 10:44:47 AM	24955
Xylenes, Total	0.24	0.080		mg/Kg	1	4/25/2016 10:44:47 AM	24955
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/25/2016 10:44:47 AM	24955

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 7
	ND Not Detected at the Reporting Limit		Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	S	% Recovery outside of range due to dilution or matrix		Sample container temperature is out of limit as specified

WO#: 1604A30

26-Apr-16

Client: Projcct:	Blagg GCU 2	Engineering 242E										
Sample ID Client ID: Prep Date:	MB-24978 PBS 4/25/2016	SampType Batch ID Analysis Date): 2497	8	F	tCode: E RunNo: 3 SeqNo: 1	3759	300.0: Anior Units: mg/F				
Analyte Chloride	_	Result F	PQL 5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	_
Sample ID Client ID: Prep Date: Analyte	LCS-24978 LCSS 4/25/2016	SampType Batch ID Analysis Date Result F): 2497 e: 4/25	5/2016	F	tCode: El RunNo: 3 SeqNo: 1 %REC	3759	300.0: Anion Units: mg/M HighLimit		RPDLimit	Qual	
Chloride		14	1.5	15.00	0	92.1	90	110	Juil D	N BLINK	Scata	_

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
- R RPD outside accepted recovery limits
- 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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1604A30

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26-Apr-16

Client: Blagg Project: GCU 2	Engineering 242E						
Sample ID LCS-24971	SampType: LCS	TestCode: E	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCSS	Batch ID: 24971	RunNo: 3	33752				
Prep Date: 4/25/2016	Analysis Date: 4/25/2016	SeqNo: 1	039575	Units: mg/Kg	9		
Analyte	Result PQL SPK val	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10 50.	0 0 92.7	65.8	136			
Surr: DNOP	4.8 5.0	95.9	70	130			
Sample ID MB-24971	SampType: MBLK	TestCode: E	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 24971	RunNo: 3	3752				
Prep Date: 4/25/2016	Analysis Date: 4/25/2016	SeqNo: 1	039576	Units: mg/Kg	1		
Analyte	Result PQL SPK val	e SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10						
Surr: DNOP	9.8 10.0	98.1	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
- R RPD outside accepted recovery limits
- 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
 - Sample pH Not In Range
- RL Reporting Detection Limit

Р

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1604A30

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26-Apr-16

Client: Blagg D Project: GCU 2	Engineering 142E	
Sample ID MB-24955	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 24955	RunNo: 33757
Prep Date: 4/22/2016	Analysis Date: 4/25/2016	SeqNo: 1039872 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	940 1000	94.1 80 120
Sample ID LCS-24955	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 24955	RunNo: 33757
Prep Date: 4/22/2016	Analysis Date: 4/25/2016	SeqNo: 1039873 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 98.6 80 120
Surr: BFB	1000 1000	103 80 120
Sample ID MB-24964	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 24964	RunNo: 33757
Prep Date: 4/22/2016	Analysis Date: 4/25/2016	SeqNo: 1039916 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	970 1000	96.8 80 120
Sample ID LCS-24964	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 24964	RunNo: 33757
Prep Date: 4/22/2016	Analysis Date: 4/25/2016	SeqNo: 1039925 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1000 1000	102 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

Hall Environmenta	l Analysis	Laboratory,]	nc.
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Client: Blagg Engineering Project: GCU 242E

Sample ID MB-24955	Samp	Туре: М	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 24955 Analysis Date: 4/25/2016			RunNo: 33757						
Prep Date: 4/22/2016				SeqNo: 1039955			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120			
Sample ID LCS-24955	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 24955			RunNo: 33757						
Prep Date: 4/22/2016	Analysis Date: 4/25/2016			SeqNo: 1039956			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	75.3	123			
Foluene	0.87	0.050	1.000	0	87.4	80	124			
Ethylbenzene	0.85	0.050	1.000	0	84.6	82.8	121			
Kylenes, Total	2.5	0.10	3.000	0	84.5	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID MB-24964	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 24964			RunNo: 33757						
Prep Date: 4/22/2016	Analysis Date: 4/25/2016			SeqNo: 1039974			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			
Sample ID LCS-24964	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 24964			RunNo: 33757						
Prep Date: 4/22/2016	Analysis Date: 4/25/2016			SeqNo: 1039975 Units: %Rec				;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

Page 7 of 7

WO#: 1604A30

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: BLAGG Work Orde				
	r Number: 1604A30		RcptNo:	1
Received by/date: AG 04 23	3/10			
Logged By: Ashley Gallegos 4/23/2016 8:	45:00 AM	A		
Completed By: Ashley Gallegos 4/23/2016 9:	32:47 AM	AZ		
Reviewed By: As 04/25/16.				
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 🗌		
5. Were all samples received at a temperature of >0° C to 6.	0°C Yes 🐼	No 🗌		
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 🕢		
			# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🛃	No 🗌	for pH:	>12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?	Yes	No 🗌	Adjusted?	riz uniess noteu)
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 🗌	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🜌	
Person Notified:	Date	In the second		
By Whom:	Via: eMail P	hone 🗌 Fax	In Person	
Regarding:	UNITED TO THE RECOMPLETE METHOD IN STREET		SUBMUEL Monder of CELLERS	
Client Instructions:	****	ing - Crassin Areas Sciences	and an and a second	
17. Additional remarks:			1	
18. <u>Cooler Information</u>				
Cooler No Temp °C Condition Seal Intact Seal	No Seal Date	Signed By		
1 1.0 Good Yes				

			stody Record	Turn-Around Time: ASAV Standard X Rush SAME DAK							_							1EI			-
ailing Address:			Standard Project Name	Rush_	Struc of a				A	N	AL	YS	SIS	S L	AE	50	RA	ТО	R	ľ	
			rojectivanie	CU 242		www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109															
				Project #:						5-34		975	F	ēax ∕sis	505-	345-	4107				
		5- 50	20 - 1183	Droject Mana				5	6				nary		Req	uest		-			
nail or Fax#: VQC Package: 'Standard □ Level 4 (Full Validation)		Project Manager: J- BiAG6			\$ (8021)	s (8021) (Gas only	TPH (Gas only)	(Gas only (O LANK	DRO LANCO)	DIA ACT	(SIMS)		PO4,SO	2 PCB's							
credi	tation AP	□ Othe	ər	Sampler:		⊡sNo ana ana ana ana ana ana ana ana ana an		+	RO / DF	18.1)	04.1)	8270	10	03,NO2	s / 8082		(M)				or N)
EDD	(Type)			Sample Tem	perature:	\mathcal{O}	出	BE	3 (GI	od 4	od 5	0 or	etals	CI'N	cide	(A)	i-VO	a b			2
)ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO	BTEX + MIR	BTEX + MTBE	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLOPIDE			Air Bubbles (Y or N)
14	1415	SOIL	EAST SIDE South Well 5-pt 10'-18'	40221	CEOL	-001	X		X			-	-					×			
4	1426	it	MID NORTH BASE	ч	и	-002	X		×									X			
K	1429	ч	5-pt @ 18' EAST BASE 5-pt @ 10	E(и	-003	×		X									X			
							-							-					-		_
_																					
							-	-						-			-			-	-
															-						_
te:	Time:	Relinquis	U Blegg	Received by:	lal	Date Time		emarl		Bicconte	iet	: 5		ve v			6				
2/14	1840	Sha	ustire Watters	for	\sum	04/23/10 1	10	45	<u> </u>												
	If necessary	, samples su	ibmitted to Hail Environmental may be su	ibcontracted to other	accredited laborator	ies. This serves as notice of the	vis pos	sibility	Any:	sub-co	ntracte	ed data	a will I	be clea	arly no	tated o	on the	analytic	al repo	rt.	



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

May 02, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1604B45

Dear Jeff Blagg:

RE: GCU 242E

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/27/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1604B45
Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Extended East Base 5-pt @ 17' Project: GCU 242E Collection Date: 4/26/2016 2:12:00 PM Lab ID: 1604B45-001 Matrix: MEOH (SOIL) Received Date: 4/27/2016 7:15:00 AM Dealer POL Or al With

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	4/27/2016 11:18:24 AM	25044
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analyst:	KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/27/2016 1:32:27 PM	25027
Surr: DNOP	102	70-130	%Rec	1	4/27/2016 1:32:27 PM	25027
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/27/2016 11:57:03 AM	25015
Surr: BFB	100	80-120	%Rec	1	4/27/2016 11:57:03 AM	25015
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	4/27/2016 11:57:03 AM	25015
Toluene	ND	0.048	mg/Kg	1	4/27/2016 11:57:03 AM	25015
Ethylbenzene	ND	0.048	mg/Kg	1	4/27/2016 11:57:03 AM	25015
Xylenes, Total	ND	0.097	mg/Kg	1	4/27/2016 11:57:03 AM	25015
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/27/2016 11:57:03 AM	25015

Oualifiers :	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
Quantation	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	rage 1 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	t as specified

Analytical Report
Lab Order 1604B45
Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Blagg EngineeringClient Sample ID: East Side Wall 6-pt (8'-16')Project:GCU 242ECollection Date: 4/26/2016 2:21:00 PMLab ID:1604B45-002Matrix: MEOH (SOIL)Received Date: 4/27/2016 7:15:00 AM

EPA METHOD 300.0: ANIONS				Analyst:	LGT
Chloride ND	30	mg/Kg	20	4/27/2016 11:30:48 AM	25044
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst:	KJH
Diesel Range Organics (DRO) ND	9.8	mg/Kg	1	4/27/2016 1:54:16 PM	25027
Surr: DNOP 103	70-130	%Rec	1	4/27/2016 1:54:16 PM	25027
EPA METHOD 8015D: GASOLINE RANGE				Analyst:	NSB
Gasoline Range Organics (GRO) ND	4.7	mg/Kg	1	4/27/2016 12:20:40 PM	25015
Surr: BFB 94.9	80-120	%Rec	1	4/27/2016 12:20:40 PM	25015
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene ND	0.023	mg/Kg	1	4/27/2016 12:20:40 PM	25015
Toluene ND	0.047	mg/Kg	1	4/27/2016 12:20:40 PM	25015
Ethylbenzene ND	0.047	mg/Kg	1	4/27/2016 12:20:40 PM	25015
Xylenes, Total ND	0.094	mg/Kg	1	4/27/2016 12:20:40 PM	25015
Surr: 4-Bromofluorobenzene 96.2	80-120	%Rec	1	4/27/2016 12:20:40 PM	25015

	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank		
D	Sample Diluted Due to Matrix	Е	Value above quantitation range		
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2	Page 2 of 6	
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	010	
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specia	fied	

14

1.5

15.00

WO#: 1604B45

02-May-16

Client: Project:	Blagg GCU 2	Engineering 242E				
Sample ID Client ID: Prep Date:	MB-25044 PBS 4/27/2016	SampType: MBLK Batch ID: 25044 Analysis Date: 4/27/2016	TestCode: EPA Method RunNo: 33845 SegNo: 1042570	300.0: Anions Units: mg/Kg		
Analyte Chloride		Result PQL SPK value S ND 1.5	Charles • Mindered • The Second Party of the Second of Mindered	HighLimit %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date:	LCS-25044 LCSS 4/27/2016	SampType: LCS Batch ID: 25044 Analysis Date: 4/27/2016	TestCode: EPA Method RunNo: 33845 SeqNo: 1042571	300.0: Anions Units: mg/Kg		
Analyte		Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual

0

94.9

90

110

Qualifiers:

Chloride

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

- Page 3 of 6

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

-

Client: Blagg Project: GCU	Engineering 242E	
Sample ID LCS-25001	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25001	RunNo: 33822
Prep Date: 4/26/2016	Analysis Date: 4/27/2016	SeqNo: 1041860 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Surr: DNOP	4.6 5.000	91.6 70 130
Sample ID LCS-25027	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25027	RunNo: 33822
Prep Date: 4/27/2016	Analysis Date: 4/27/2016	SeqNo: 1041861 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Diesel Range Organics (DRO)	45 10 50.00	0 89.5 65.8 136
Surr: DNOP	4.4 5.000	88.0 70 130
Sample ID MB-25001	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25001	RunNo: 33822
Prep Date: 4/26/2016	Analysis Date: 4/27/2016	SeqNo: 1041862 Units: %Rec
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: DNOP	9.6 10.00	95.7 70 130
Sample ID MB-25027	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25027	RunNo: 33822
Prep Date: 4/27/2016	Analysis Date: 4/27/2016	SeqNo: 1041863 Units: mg/Kg
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Diesel Range Organics (DRO)	ND 10 9.8 10.00	98.2 70 130
Surr: DNOP	9.8 10.00	98.2 70 130
Sample ID LCS-25002	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25002	RunNo: 33843
Prep Date: 4/26/2016	Analysis Date: 4/28/2016	SeqNo: 1042563 Units: %Rec
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: DNOP	4.7 5.000	94.5 70 130
Sample ID MB-25002	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25002	RunNo: 33843
Prep Date: 4/26/2016	Analysis Date: 4/28/2016	SeqNo: 1042566 Units: %Rec

Qualifiers:

D

- Value exceeds Maximum Contaminant Level. *
 - Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank Е
 - Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

WO#: 1604B45 02-May-16

WO#: 1604B45

02-May-16

Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Blagg Eng GCU 242		
Sample ID	MB-25015	SampType:	MBLK
Client ID:	PBS	Batch ID:	25015

Sample ID MB-25015	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 25015	RunNo: 33826
Prep Date: 4/26/2016	Analysis Date: 4/27/2016	SeqNo: 1042318 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	950 1000	95.3 80 120
Sample ID LCS-25015	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 25015	RunNo: 33826
Prep Date: 4/26/2016	Analysis Date: 4/27/2016	SeqNo: 1042319 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	22 5.0 25.00	0 88.0 80 120
Surr: BFB	1000 1000	102 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL
- Sample container temperature is out of limit as specified

Page 5 of 6

Reporting Detection Limit

W

Client:Blagg EngineeringProject:GCU 242E

Sample ID MB-25015	Samp	Туре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 25	015	F	RunNo: 3	3826				
Prep Date: 4/26/2016	Analysis [Date: 4/	/27/2016	S	SeqNo: 1	042402	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			
Sample ID LCS-25015	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 25	015	F	RunNo: 3	3826				
Prep Date: 4/26/2016	Analysis D	Date: 4/	27/2016	S	SeqNo: 1	042403	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.3	123			
Toluene	0.94	0.050	1.000	0	94.2	80	124			
Ethylbenzene	0.90	0.050	1.000	0	90.4	82.8	121			
Kylenes, Total	2.7	0.10	3.000	0	89.8	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

Page 6 of 6

WO#: 1604B45

02-May-16

ENVIRONMENTAL ANALYSIS LABORATORY	Environmental Albu \$05-345-3975 ebsite; www.hai	4901 querqu FAX: 5	Hawkin ne, NM 8 105-345-	ns NE 87109 -4107	Sar	mple Log-In	Check List
Client Name: BLAGG Work C	rder Number	1604	345		1000	RcptN	o; 1
Received by/date:		 	940 A. 40	a (000 100)	*	4 100 X 1 X 4	
Logged By: Lindsay Mangin 4/27/2016	7:15:00 AM			(B	maly Alex	æ	
	7:59:51 AM			V	Jull /	35	
	7.59.51 AN			0	may may	60	
Reviewed By: $(0) > 04/29$	14		247 - 4	•			
Chain of Custody							
1. Custody seals intact on sample bottles?		Yes			No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes			No 🛄	Not Present	
How was the sample delivered?		Cour	ier				
Log In							
4. Was an attempt made to cool the samples?		Yes			No 🗌	NA 🗆	1
5. Were all samples received at a temperature of $>0^\circ$ C t	o 6.0°C	Yes		r	No 🗆		
6. Sample(s) in proper container(s)?		Yes			No 🗌		
7. Sufficient sample volume for indicated test(s)?		Yes		1	No 🗆		
8. Are samples (except VOA and ONG) properly preserve	d?	Yes			No 🗌		
9. Was preservative added to bottles?		Yes		1	No 🖈	NA 🗌	
10.VOA vlals have zero headspace?		Yes			No 🗌	No VOA Vials 🐼	
11. Were any sample containers received broken?		Yes			No 🕢		
						# of preserved bottles checked	
12.Does paperwork match bottle labels?		Yes		1	No 🗌	for pH:	
(Note discrepancies on chain of custody)						(<2 Adjusted?	or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?14. Is it clear what analyses were requested?		Yes			No []	, inflation .	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes			No 🗌	Checked by:	
Special Handling (if applicable)							
16. Was client notified of all discrepancies with this order?		Yes		N	lo 🗆	NA 🜌	
Person Notified:	Data:		CARACTERIST				
By Whom:	Date:	eMai		hone	Fax	In Person	
Regarding:		alleaders of the second second		DOCUMENT	a state and state	an per que a construction de la	
Client Instructions:	Contraction of the local in		NAVE BOX (HINANDA	Annacamatina			
17. Additional remarks:					1981 AL 1980A	n (m. 47) m. 47 (m. 14) an ann an Anna Anna Anna Anna Anna Ann	
18. Cooler Information							
	Seal No Se	al Dal	e	Signe	d By	1	
1 1.3 Good Yes							

С	hain-	of-Cu	stody Record	Turn-Around	Time:	ASAP				H			FI	vv	TR	0		1E	NT	AL	
ient:	3PA	MERIC	A	Standard Rush SAME DAY ANALY												1					
			NEERING INC.	Project Name	ə: .		www.hallenvironmental.com														
	Address:			G	GCU Z4ZE				4901 Hawkins NE - Albuquerque, NM 87109												
				Project #:		2				5-34							4107				
	50	5-32	0-1183					10	1. 00	0 04	0.00		-	Concession of the local division of the loca		uest					
All the second second	Fax#:	0 0-		Project Mana	iger:			(VII	â					(*)		-					
AVQC F	Package: dard		Level 4 (Full Validation)		B1466		s (8021)	(Gas only)	102			(SIMS)		PO4:SC	PCB's						
ccredi NEL	tation	□ Othe	r	On Ice:	J-BLAGG	No No	+ TMB'S	HdT +	RO / DF	18.1)	04.1)	8270 5		03,NO2,	\$ / 8082		(A)				or N)
EDD	(Type)	ж	F	Sample Tem	perature //	Ber Management	H		(GF	od 4	od 5	0 or	etals	SI'NG	sides	(Y	07-	w			N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALINO	BTEX + MITH	BTEX + MTBE	TPH 8015B (GRO / DRO / MBO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anionis (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
5/16	1412	SOLL	Extended EAST BASE 5- Pt @ 17'	402 = 1	COOL	-001	X		X	F				4		w		X			-
(1421	u	5- pt 0. 17' EAST SIDE Wall 6- pt (8'-16')	u	ч	-002	X		x									X		_	_
								-									-				+
																					-
							+	-	\vdash	-	-						-			+	+
-					*			-			-				-	-	-	-		+	+
_																					
			2																		
4/16 ite:	Time: 1655 Time: 1960	Relinquist	1 Blagg	Received by: Received by:	A M	Date Time <u>4</u> /24/14 /455 Date Time 77/11 0715	Re	marl		BILL ONT V	ACT	-1 :					EC				



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

April 29, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1604C10

Dear Jeff Blagg:

RE: GCU 242E

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1604C10
Date Reported: 4/29/2016

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch
Lab ID:	1604C10-001	Matrix:	MEOH (SOIL)	Received	Date: 4/28/2016 7:00:00 AM	
Project:	GCU 242E			Collection	Date: 4/27/2016 2:08:00 PM	
CLIENT:	Blagg Engineering		(Client Samp	le ID: N Base - W End 5-pt (1	8'-20')

EPA METHOD 300.0: ANIONS					Analyst:	SRM
Chloride	49	30	mg/Kg	20	4/28/2016 12:02:08 PM	25067
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	5			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/28/2016 11:25:43 AM	25053
Surr: DNOP	99.0	70-130	%Rec	1	4/28/2016 11:25:43 AM	25053
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	4/28/2016 10:00:37 AM	25034
Surr: BFB	97.2	80-120	%Rec	1	4/28/2016 10:00:37 AM	25034
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	4/28/2016 10:00:37 AM	25034
Toluene	ND	0.040	mg/Kg	1	4/28/2016 10:00:37 AM	25034
Ethylbenzene	ND	0.040	mg/Kg	1	4/28/2016 10:00:37 AM	25034
Xylenes, Total	ND	0.079	mg/Kg	1	4/28/2016 10:00:37 AM	25034
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	4/28/2016 10:00:37 AM	25034

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1604C10

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/29/2016

CLIENT:	Blagg Engineering
Project:	GCU 242E

1604C10-002

Project:

Lab ID:

Client Sample ID: N Base - E End 5-pt (17'-18') Collection Date: 4/27/2016 2:14:00 PM Matrix: MEOH (SOIL) Received Date: 4/28/2016 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	4				Analyst:	SRM
Chloride	ND	30	mg/Kg	20	4/28/2016 12:14:33 PM	25067
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/28/2016 11:47:55 AM	25053
Surr: DNOP	100	70-130	%Rec	1	4/28/2016 11:47:55 AM	25053
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/28/2016 10:23:59 AM	25034
Surr: BFB	97.5	80-120	%Rec	1	4/28/2016 10:23:59 AM	25034
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.021	mg/Kg	1	4/28/2016 10:23:59 AM	25034
Toluene	ND	0.041	mg/Kg	1	4/28/2016 10:23:59 AM	25034
Ethylbenzene	ND	0.041	mg/Kg	1	4/28/2016 10:23:59 AM	25034
Xylenes, Total	ND	0.082	mg/Kg	1	4/28/2016 10:23:59 AM	25034
Surr: 4-Bromofluorobenzene	98.5	80-120	%Rec	1	4/28/2016 10:23:59 AM	25034

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8	ł
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	'
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report
Lab Order 1604C10
Date Reported: 4/29/2016

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	POL Oua	Units	DF Date Analyzed	Batch
Lab ID:	1604C10-003	Matrix:	MEOH (SOIL)	Received	Date: 4/28/2016 7:00:00 AM	
Project:	GCU 242E			Collection	Date: 4/27/2016 2:18:00 PM	
CLIENT:	Blagg Engineering			Client Samp	le ID: N Wall - E End 5-pt (8	'-14')

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SRM
Chloride	ND	30	mg/Kg	20	4/28/2016 12:26:58 PM	25067
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	6			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/28/2016 12:09:58 PM	25053
Surr: DNOP	104	70-130	%Rec	1	4/28/2016 12:09:58 PM	25053
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	4/28/2016 10:47:23 AM	25034
Surr: BFB	97.2	80-120	%Rec	1	4/28/2016 10:47:23 AM	25034
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.022	mg/Kg	1	4/28/2016 10:47:23 AM	25034
Toluene	ND	0.044	mg/Kg	1	4/28/2016 10:47:23 AM	25034
Ethylbenzene	ND	0.044	mg/Kg	1	4/28/2016 10:47:23 AM	25034
Xylenes, Total	ND	0.089	mg/Kg	1	4/28/2016 10:47:23 AM	25034
Surr: 4-Bromofluorobenzene	96.7	80-120	%Rec	1	4/28/2016 10:47:23 AM	25034

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
	D	Sample Diluted Due to Matrix	E	Value above quantitation range				
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8				
l l N	ND	D Not Detected at the Reporting Limit		Sample pH Not In Range				
D H NI	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
	S	% Recovery outside of range due to dilution or matrix		Sample container temperature is out of limit as specified				

Analytical Report Lab Order 1604C10 Date Reported: 4/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: N Wall - Center W 4-pt (8'-16') **CLIENT:** Blagg Engineering Collection Date: 4/27/2016 2:24:00 PM Project: GCU 242E 1604C10-004 Matrix: MEOH (SOIL) Received Date: 4/28/2016 7:00:00 AM Lab ID: Analyses Result POL Qual Units DF Date Analyzed Ratch

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	SRM
Chloride	ND	30	mg/Kg	20	4/28/2016 12:39:23 PM	25067
EPA METHOD 8015M/D: DIESEL RAM	GE ORGANICS	6			Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/28/2016 12:31:46 PM	25053
Surr: DNOP	102	70-130	%Rec	1	4/28/2016 12:31:46 PM	25053
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	4/28/2016 11:10:57 AM	25034
Surr: BFB	94.8	80-120	%Rec	1	4/28/2016 11:10:57 AM	25034
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.021	mg/Kg	1	4/28/2016 11:10:57 AM	25034
Toluene	ND	0.042	mg/Kg	1	4/28/2016 11:10:57 AM	25034
Ethylbenzene	ND	0.042	mg/Kg	1	4/28/2016 11:10:57 AM	25034
Xylenes, Total	ND	0.084	mg/Kg	1	4/28/2016 11:10:57 AM	25034
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	4/28/2016 11:10:57 AM	25034

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

	Refer to the QC i	Summary	report and	Sample	iogin ene	CRIISt IOI	nagged	ye ua	ta ana	preser	auon	
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* 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
- R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 8 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample container temperature is out of limit as specified W

WO#: 1604C10

29-Apr-16

Hall Environmenta	Analysis	s Laboratory, Inc.	
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Client: Project:	Blagg GCU 2	Engineering 242E				
Sample ID Client ID: Prep Date:	MB-25067 PBS 4/28/2016	SampType: MBLK Batch ID: 25067 Analysis Date: 4/28/2016	TestCode: EPA Method RunNo: 33881 SegNo: 1043530	d 300.0: Anions Units: mg/Kg		
Analyte Chloride			SPK Ref Val %REC LowLimit		RPDLimit	Qual
Sample ID Client ID: Prep Date:	LCS-25067 LCSS 4/28/2016	SampType: LCS Batch ID: 25067 Analysis Date: 4/28/2016	TestCode: EPA Method RunNo: 33881 SeqNo: 1043531	d 300.0: Anions Units: mg/Kg		
Analyte Chloride		Result PQL SPK value 14 1.5 15.00	SPK Ref Val %REC LowLimit 0 94.5 90	0	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
- R RPD outside accepted recovery limits
- 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
- Page 5 of 8
- Detection Limit

Hall	Environmental	Analysis	Laboratory.	Inc.

WO#: 1604C10

29-Apr-16

Client: Project:	Blagg En GCU 242	igineering 2E									
Sample ID	LCS-25002	Samp	Гуре: L	cs	Tes	stCode: E	PA Method	8015M/D: D	iesel Rang	je Organics	
Client ID:	LCSS	Batc	h ID: 2	5002	j	RunNo: 3	33843				
Prep Date:	4/26/2016	Analysis E	Date: 4	//28/2016		SeqNo: 1	042563	Units: %Re	ec		
Analyte Surr: DNOP		Result 4.7	PQL	SPK value 5.000	SPK Ref Val	%REC 94.5	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
Sample ID	MB-25002	SampT	Type: M	BLK	Tes	stCode: E	PA Method	8015M/D: D	iesel Rang	e Organics	
Client ID:	PBS	Batch	h ID: 2	5002	I	RunNo: 3	3843				
Prep Date:	4/26/2016	Analysis D	Date: 4	/28/2016		SeqNo: 1	042566	Units: %Re	ec		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12		10.00		124	70	130			
Sample ID	MB-25053	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8015M/D: Di	iesel Rang	e Organics	
Client ID:	PBS	Batch	1 ID: 2	5053	F	RunNo: 3	3843				
Prep Date:	4/28/2016	Analysis D	ate: 4	/28/2016		SeqNo: 1	042567	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10	K							
Surr: DNOP		10		10.00		100	70	130			
Sample ID	LCS-25053	SampT	ype: LO	CS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	D: 25	053	F	RunNo: 3	3843				
Prep Date:	4/28/2016	Analysis D	ate: 4	/28/2016	S	SeqNo: 1	042741	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	47	10	50.00	0	93.3	65.8	136			
Surr: DNOP		4.8		5.000		95.8	70	130	Jacob I.	1.1.1	
Sample ID	1604C10-001AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	N Base - W End 5-	pt Batch	ID: 25	053	F	RunNo: 3	3843				
Prep Date:	4/28/2016	Analysis D	ate: 4	/28/2016	S	SeqNo: 1	043207	Units: mg/M	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	48	10	49.90	4.228	87.3	33.9	141			
Surr: DNOP		4.7		4.990		93.8	70	130			
Sample ID	1604C10-001AMS	SampTy	ype: M	SD	Test	Code: EF	A Method	8015M/D: Die	esel Range	e Organics	
Client ID:	N Base - W End 5-	pt Batch	ID: 25	053	R	unNo: 33	3843				
Prep Date:	4/28/2016	Analysis Da	ate: 4/	28/2016	S	eqNo: 10	43208	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	rganics (DRO)	50	9.7	48.69	4.228	93.6	33.9	141	4.05	20	
Surr: DNOP		4.8		4.869		98.5	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
- R RPD outside accepted recovery limits
- 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
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

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WO#: 1604C10

29-Apr-16

Client: Blagg I Project: GCU 2	Engineering 42E									
Sample ID MB-25034 Client ID: PBS	SampTy Batch I	1910.0			tCode: E RunNo: 3		8015D: Gase	oline Rang	e	
Prep Date: 4/27/2016	Analysis Da	te: 4/	28/2016	5	SeqNo: 1	043122	Units: mg/k	٨g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 960	5.0	1000		96.2	80	120			
Sample ID LCS-25034	SampTy	pe: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch I	D: 25	034	RunNo: 33850						
Prep Date: 4/27/2016	Analysis Dat	te: 4/	28/2016	S	SeqNo: 1	043125	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	80	120			
Surr: BFB	1000		1000		102	80	120			

Qualifiers:

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

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Reporting Detection Limit

WO#: 1604C10

29-Apr-16

Client:BlaggProject:GCU 2	Engineering 242E									
Sample ID MB-25034	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 25	034	F	RunNo: 3	3850				
Prep Date: 4/27/2016	Analysis I	Date: 4	/28/2016	5	SeqNo: 1	043171	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			
Sample ID LCS-25034	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 25	034	F	RunNo: 3	3850				
Prep Date: 4/27/2016	Analysis [Date: 4/	28/2016	5	SeqNo: 1	043173	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	75.3	123			
Toluene	0.98	0.050	1.000	0	98.4	80	124			
Ethylbenzene	0.92	0.050	1.000	0	92.1	82.8	121			
Kylenes, Total	2.8	0.10	3.000	0	91.7	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	4901 uquerqu FAX: 5	Hawkins NE le, NM 87109 05-345-4107	Sam	ple Log-In C	heck List
Client Name: BLAGG	Work Order Number:	1604	C10		RcptNo:	1
Received by/date:	04/28/16 4/28/2016 7:00:00 AM			Junky Hlopp		
Completed By: Lindsay Mangin Reviewed By: AT 04/28/16	4/28/2016 7:23:58 AM		C	Jundry Hongs		
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?		Cour	ier			
Log In						
4. Was an attempt made to cool the samples	?	Yes		No 🗌		
5. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes		No 🗌		
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) prope	rly 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 broke	en?	Yes		No 🛃	# of preserved	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	bottles checked for pH:	>12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes		No 🗌	Adjusted?	
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 🗌	Checked by:	×
Special Handling (if applicable)						
16. Was client notified of all discrepancies with	this order?	Yes		No 🗌	NA 🕢	
Person Notified:	Date:			de de alter de rater de la des		
By Whom:	Via:	eMai	Phone	Fax	In Person	
Regarding:			EVELOGINE CONFICULT		and the second state of state of state of states	
Client Instructions:					ALL CONTRACTOR OF A CONTRACT	
17. Additional remarks:						
18. <u>Cooler Information</u> Cooler No Temp °C Condition Se	eal Intact Seal No S	eal Dat	e Sigr	ned By		
1 1.8 Good Yes						
Page 1 of 1						

С	hain-	of-Cu	stody Record	Turn-Around	Time:	ASAP							-		TE				NT	41	
		MERI		□ Standard	Rush	SAME DAK				-									TO		1
			NGINEERING INC.	Project Name										ironr							-
lailing	Address:	27 21	NGINEERING INC.	6	CU Z	HZE		49	01 H									109			
- 23	199			Project #:					el. 50					ax							
hone #	: (50	5) 32	0-483											sis	-			1.2			
mail or		-		Project Mana	ger:		-	only)	Î					04)							
A/QC F	ackage:		Level 4 (Full Validation)	J. 1	BLAGG		\$ (8021)	Gas o	101			(SWI		PO4,S	PCB's						
ccredit	tation				- BLAGG		S.BIML	- TPH (Gas	(GRO / DRO / MRO	8.1)	(1.1)	8270 S		3,NO2,	/ 8082		4)				ILN)
	(Type)			Sample Terr	perature: 1, 5	8		BE +		d 41	od 50	0 or	tals	NON,	ides	A	107-	E			2 o
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	BTEX + TATBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB'	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
1/16	1403	SOIL	NORTH BASE - West End 5-PE (18-20) NORTH BASE - EAST END	402×1	COOL	-001	X		×	4	ш	ш	LL.	4	8	8	8	×			4
u	1414	1(5-Dt(17-18)	١٢	11	-002	×		×									×			
11	1418	11	NORTH Wall - EAST END 5- PEIB-14-1	11	10	-103	X		×									×			
1(1424	11	NORK Well-Center West 4-pt (95-16)	и.	10	-004	×	1	×									X		-	
							-													+	+
-13								_												+	+
																				+	+
																					-
ate: 27/16 ate:	Time: 1535 Time:	Relinquist	1 Blagg	Received by:	Walk	Date Time 4/27/16 1535 1 Date Time	Re	marl	(S: E	ON	TAC	Ti		EVE							
1/16	1747	(Jhi	the Wallers			15 This serves as notice of the	lis pos	sibility	Anve										cal repo	rt.	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

May 02, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: GCU 242E

OrderNo.: 1604C69

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/29/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1604C69

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2016

Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch
Lab ID:	1604C69-001	Matrix:	MEOH (SOIL)	Received	Date: 4/29/2016 7:00:00 AM	
Project:	GCU 242E			Collection	Date: 4/28/2016 2:10:00 PM	
CLIENT:	Blagg Engineering		(Client Samp	ole ID: N Wall-W End Extension	on 5-pt (8

EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	40	30	mg/Kg	20	4/29/2016 11:53:39 AM	25076
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst:	JME
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/29/2016 10:55:02 AM	25071
Surr: DNOP	90.5	70-130	%Rec	1	4/29/2016 10:55:02 AM	25071
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	4/29/2016 10:33:41 AM	25062
Surr: BFB	97.5	80-120	%Rec	1	4/29/2016 10:33:41 AM	25062
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.022	mg/Kg	1	4/29/2016 10:33:41 AM	25062
Toluene	ND	0.044	mg/Kg	1	4/29/2016 10:33:41 AM	25062
Ethylbenzene	ND	0.044	mg/Kg	1	4/29/2016 10:33:41 AM	25062
Xylenes, Total	ND	0.089	mg/Kg	1	4/29/2016 10:33:41 AM	25062
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	4/29/2016 10:33:41 AM	25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte dete
	D	Sample Diluted Due to Matrix	Е	Value above
	Н	Holding times for preparation or analysis exceeded	J	Analyte dete
	ND	Not Detected at the Reporting Limit	Р	Sample pH 1
	R	RPD outside accepted recovery limits	RL	Reporting D

- % Recovery outside of range due to dilution or matrix S
- tected in the associated Method Blank
- ve quantitation range
- tected below quantitation limits Page 1 of 6
- Not In Range
- Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1604C69	

Date Reported: 5/2/2016

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
Lab ID:	1604C69-002	Matrix:	MEOH (Se	OIL)	Received	Date: 4/2	29/2016 7:00:00 AM	
Project:	GCU 242E				Collection	Date: 4/2	28/2016 2:15:00 PM	
CLIENT:	Blagg Engineering			C	lient Samp	le ID: Ba	se-W End N Extensio	n 5-pt @

EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	52	30	mg/Kg	20	4/29/2016 12:06:04 PM	25076
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analyst:	JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/29/2016 11:16:37 AM	25071
Surr: DNOP	95.6	70-130	%Rec	1	4/29/2016 11:16:37 AM	25071
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	7.4	4.2	mg/Kg	1	4/29/2016 10:57:19 AM	25062
Surr: BFB	115	80-120	%Rec	1	4/29/2016 10:57:19 AM	25062
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.021	mg/Kg	1	4/29/2016 10:57:19 AM	25062
Toluene	0.046	0.042	mg/Kg	1	4/29/2016 10:57:19 AM	25062
Ethylbenzene	ND	0.042	mg/Kg	1	4/29/2016 10:57:19 AM	25062
Xylenes, Total	0.13	0.085	mg/Kg	1	4/29/2016 10:57:19 AM	25062
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	4/29/2016 10:57:19 AM	25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

WO#: 1604C69

02-May-16

Client: Project:	Blagg GCU 2	Engineering 242E	
Sample ID	MB-25076	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 25076	RunNo: 33917
Prep Date:	4/29/2016	Analysis Date: 4/29/2016	SeqNo: 1044748 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID	LCS-25076	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 25076	RunNo: 33917
Prep Date:	4/29/2016	Analysis Date: 4/29/2016	SeqNo: 1044749 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 94.0 90 110

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
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- W Sample container temperature is out of limit as specified

Page 3 of 6

RL **Reporting Detection Limit**

WO#: 1604C69

02-May-16

Client: Blagg Project: GCU2	Engineering 242E
Sample ID LCS-25071	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25071 RunNo: 33883
Prep Date: 4/29/2016	Analysis Date: 4/29/2016 SeqNo: 1043645 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00 0 97.8 65.8 136
Surr: DNOP	4.6 5.000 91.9 70 130
Sample ID MB-25071	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25071 RunNo: 33883
Prep Date: 4/29/2016	Analysis Date: 4/29/2016 SeqNo: 1043646 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10
Surr: DNOP	9.0 10.00 90.3 70 130
Sample ID MB-25085	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25085 RunNo: 33883
Prep Date: 4/30/2016	Analysis Date: 4/30/2016 SeqNo: 1044127 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00 90.1 70 130
Sample ID LCS-25085	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25085 RunNo: 33883
Prep Date: 4/30/2016	Analysis Date: 4/30/2016 SeqNo: 1044133 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.4 5.000 87.8 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
- R RPD outside accepted recovery limits
- 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

Page 4 of 6

Banarting Detection Limit

WO#: 1604C69

02-May-16

Client: Blagg E Project: GCU 24	ingineering 42E	
Sample ID MB-25062 Client ID: PBS Prep Date: 4/28/2016	SampType: MBLK Batch ID: 25062 Analysis Date: 4/29/2016	TestCode: EPA Method 8015D: Gasoline Range RunNo: 33888 SeqNo: 1043964 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 980 1000	0 97.6 80 120
Sample ID LCS-25062 Client ID: LCSS	SampType: LCS Batch ID: 25062	TestCode: EPA Method 8015D: Gasoline Range RunNo: 33888
Prep Date: 4/28/2016	Analysis Date: 4/29/2016	SeqNo: 1043965 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	23 5.0 25.00	0 0 92.8 80 120
Surr: BFB	1000 1000	0 105 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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
- Page 5 of 6
- ge

WO#: 1604C69

02-May-16

Client: Blagg Engineering Project: GCU 242E

Sample ID MB-25062	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 25	062	F	RunNo: 3	3888				
Prep Date: 4/28/2016	Analysis (Date: 4	/29/2016	5	SeqNo: 1	043996	Units: mg/h	٢g		
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		101	80	120			
Sample ID LCS-25062	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	n ID: 25	062	F	RunNo: 3	3888				
Prep Date: 4/28/2016	Analysis D	ate: 4/	29/2016	S	SeqNo: 1	043997	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	75.3	123			
Toluene	0.84	0.050	1.000	0	84.4	80	124			
Ethylbenzene	0.83	0.050	1.000	0	82.6	82.8	121			S
Kylenes, Total	2.5	0.10	3.000	0	81.8	83.9	122			S
			1.000				120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

Page 6 of 6

atrix W Sample con

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	4901 iquerqu FAX: 5	Hawkins I ue, NM 871 505-345-41	NE 105 S	Sam	ple Log-In Che	ck List
Client Name: BLAGG	Work Order Number.	1604	C69			RcptNo: 1	
Received by/date:	04/29/16						
Logged By: Lindsay Mangin	4/29/2016 7:00:00 AM			Andy	Henry	2	
Completed By: Lindsay Mangin	4/29/2016 7:39/32 AM			Annaly	Hap	D	1
Reviewed By: FAR	04/29/110)		V			
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?		Cour	ier				
Log In							
4. Was an attempt made to cool the samples	?	Yes		No		NA	
5. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes		No			
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) prope	rly 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 broke	en?	Yes		No			1. 1. 1
						# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		for pH: (<2 or >1)	2 unless noted)
13. Are matrices correctly identified on Chain of	Custodv?	Yes		No		Adjusted?	a unioso notos,
14, Is it clear what analyses were requested?	ouclosy!	Yes		No			
15. Were all holding times able to be met?		Yes		No		Checked by:	
(If no, notify customer for authorization.)							
Special Handling (if applicable)					-		
16. Was client notified of all discrepancies with	this order?	Yes		No		NA 🕷	
Person Notified:	Date:					_	
By Whom:	Via:] eMa	il 🗌 Ph	one 🗌	Fax	In Person	
Regarding:					-		
Client Instructions:							
17. Additional remarks:							
18 Cooler Information							

18. <u>Cooler Information</u> <u>Cooler No</u> Temp ^oC Condition. Seal Intact Seal No Seal Date Signed By 1 1.8 Good Yes

С	hain-	of-Cu	stody Record	Turn-Around	Time:	ASAP							-		TE	0		AF	NT	-	
ient:	3P AN	RICA		□ Standard	Rush	ASAP SAME DAY		羽殿	-										TC		
			OWEERING, INC.	Project Name	:							.hall									-
	Address:		on ochord, inc.	GC	CU 24	ZE		40									M 87	100			
				Project #:													4107				
anno t	. IE	5) 2	20-1183				in state	IE	a. 50	5-34	0-35	and the second second	-	/sis		-	and the second se				
	Fax#:	5/ 30	20-1105	Project Mana	der:			()	6												
AVQC F	ackage:				BLAGG		(8021)	+ TPH (Gas only)	CHARA			(SN)		04,SO	oCB's						
Stan		_	□ Level 4 (Full Validation)	0.1	- R. 11	,	Hurs (H (G	DRO			SIL		D2,P	82 F						
NEL		□ Othe	er	Sampler:	J., BLAG	✓ No	A	TP	~	8.1)	1)1)	8270		3,NC	/ 80		(1				L N
EDD	(Type)			Sample Tem	perature 3	\mathcal{O}	I II	Ш	(GR	d 41	d 50	or	tals	NON,	des	2	101	W	-		No
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MEDE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHUDRIDE			Air Bubbles (Y or N)
3/2016	1410	SOIL	NORTH WALL - WEST END	40221	COUL	-001	X		X	F			<u> </u>	-	ω	ω	8	×			4
11	1415	4	Extension 5-pt (8'-10)") BASE-West END NORTH Extension 5-pt @ 20"	11	11	-002	X		x									×		+	
_																					
					1 N		-	-					-	-			-			-	
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-							+	+	-		-	-	-	+		+	+	+			
ate:	Time:	Relinquis	hed by:	Received by:	. 1	Date Time	Re	marl	s:	Bi	c B	sp	1	_	1	L	_				
28/201	Time:	Reliptuis		Received by:	t liket	E 128/16 1715	-			CON	UTA	ar:									
28/1	1810	14	not water	Y	A	04/29/11.0702				_											

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 03, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: FAX

OrderNo.: 1604D28

Dear Jeff Blagg:

RE: GCU 242E

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1604D28
Date Reported: 5/3/2016

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	POL Qual	Units	DF Date Analyzed	Batch
Lab ID:	1604D28-001	Matrix:	MEOH (SOIL)	Receive	d Date: 4/30/2016 8:03:00 AM	
Project:	GCU 242E			Collection	n Date: 4/29/2016 2:15:00 PM	
CLIENT:	Blagg Engineering		0	lient Sam	ple ID: West Wall 9-pt Comp (8	3'-18')
CARDON CONTRACTOR OF THE	antiati desta			No. of the second		

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: LGT
Chloride	67	30	mg/Kg	20	5/2/2016 2:10:39 PM	25106
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	t: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/30/2016 3:50:14 PM	25085
Surr: DNOP	97.9	70-130	%Rec	1	4/30/2016 3:50:14 PM	25085
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	6.7	4.4	mg/Kg	1	4/30/2016 6:18:49 PM	25083
Surr: BFB	115	80-120	%Rec	1	4/30/2016 6:18:49 PM	25083
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.027	0.022	mg/Kg	1	4/30/2016 6:18:49 PM	25083
Toluene	0.13	0.044	mg/Kg	1	4/30/2016 6:18:49 PM	25083
Ethylbenzene	ND	0.044	mg/Kg	1	4/30/2016 6:18:49 PM	25083
Xylenes, Total	0.30	0.087	mg/Kg	1	4/30/2016 6:18:49 PM	25083
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	4/30/2016 6:18:49 PM	25083

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Blagg En GCU 242			
	the second s	the second se	

Sample ID MB-25106	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 25106	RunNo: 33940		
Prep Date: 5/2/2016	Analysis Date: 5/2/2016	SeqNo: 1045729	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-25106	SampType: Ics	TestCode: EPA Method	300.0: Anions	1. S.
Client ID: LCSS	Batch ID: 25106	RunNo: 33940		
Prep Date: 5/2/2016	Analysis Date: 5/2/2016	SeqNo: 1045730	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 91.1 90	110	

Qualifiers:

Client:

Project:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- 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

Page 2 of 5

1604D28 03-May-16

WO#:

WO#: 1604D28

03-May-16

Hall Environmental Analysis Laboratory, Inc.	Hall	Environmental	Analysis	Laboratory,	Inc.
--	------	---------------	----------	-------------	------

Client: Project:	Blagg Engineering GCU 242E								
Sample ID LCS	25071 SampType	LCS	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCS	Batch ID:	25071	F	RunNo: 33	3883				
Prep Date: 4/2	9/2016 Analysis Date:	4/29/2016	S	SeqNo: 10	043645	Units: %Red	;		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6	5.000		91.9	70	130			
Sample ID MB-2	5071 SampType:	MBLK	Tes	tCode: EF	A Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID:	25071	F	RunNo: 33	3883				
Prep Date: 4/2	Analysis Date:	4/29/2016	5	SeqNo: 10	43646	Units: %Red	;		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0	10.00		90.3	70	130			
Sample ID MB-2	5085 SampType:	MBLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID:	25085	R	RunNo: 33	883				
Prep Date: 4/30	Analysis Date:	4/30/2016	S	SeqNo: 10	44127	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organic		10							
Surr: DNOP	9.0	10.00		90.1	70	130		in the second	
Sample ID LCS-	25085 SampType:	LCS	Test	tCode: EP	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	25085	R	tunNo: 33	883				
Prep Date: 4/30	Analysis Date:	4/30/2016	S	eqNo: 10	44133	Units: mg/Kg	9		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range Organic		10 50.00	0	93.7	65.8	136			
Surr: DNOP	4.4	5.000		87.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J

Page 3 of 5

Sample pH Not In Range Reporting Detection Limit RL

Р

W Sample container temperature is out of limit as specified

WO#: 1604D28

03-May-16

Client:	Blagg Engineering				
Project:	GCU 242E				

Sample ID MB-25083	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 25083		RunNo: 33902					
Prep Date: 4/29/2016	Analysis Date: 4/30/2016		SeqNo: 1044407		07 Units: mg/ł	Units: mg/Kg		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Low	Limit HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0						
Surr: BFB	970	1000		97.1	80 120		-	
Sample ID LCS-25083	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range				e	
terreter to the second	Batch ID: 25083		RunNo: 33902					
Client ID: LCSS								
	Analysis Date	e: 4/30/2016	S	GeqNo: 104440	8 Units: mg/H	(g		
Prep Date: 4/29/2016			SPK Ref Val		98 Units: mg/H Limit HighLimit	(g %RPD	RPDLimit	Qual
							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
- R RPD outside accepted recovery limits
- 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

Page 4 of 5

1604D28

WO#:

03-May-16

Client: Blagg Project: GCU 2	Engineering 242E									
Sample ID MB-25083	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	h ID: 25	083	F	RunNo: 3	3902				
Prep Date: 4/29/2016	Analysis [Date: 4	/30/2016	-	SeqNo: 1	044432	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120		_	
Sample ID LCS-25083	SampT	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	h ID: 25	083	F	RunNo: 3	3902				
Prep Date: 4/29/2016	Analysis D	Date: 4/	30/2016	S	SeqNo: 1	044433	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.4	75.3	123			
Toluene	0.86	0.050	1.000	0	85.6	80	124			
Ethylbenzene	0.84	0.050	1.000	0	84.0	82.8	121			
Kylenes, Total	2.5	0.10	3.000	0	83.9	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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
- antitation limite
- Page 5 of 5

ENVIRONMENTAL ANALYSIS LABORATORY TEL:	Environmental A Alium 505-345-3975 F ebsite: www.hall	4901 merqu AX: 5	Hawkins N e, NM 8710 05-345-410	^{1E} 99 Sar	nple Log-In Check Lis	st
Client Name: BLAGG Work C	Order Number:	1604	028		RoptNo: 1	
Received by/date: Q12	30 16	****				
Logged By: Lindsay Mangin 4/30/2016	6 8:03:00 AM			of sythe	0	
Completed By: Lindsay Mangin 4/30/2016	8:23:32 AM			Author	0	
Reviewed By: NS 4/30/1	6 08:15			/ • •		
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?		Cour	er			
Log In						
4. Was an altempt made to cool the samples?		Yes		No 🗌	NA LI	
5. Were all samples received at a temperature of >0" C to	o 6.0°C	Yes	V	No 🗌		
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) property preserve	d?	Yes	4	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 🗹	# of preserved	_
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	bottles checked for pH: (<2 or >12 unless n	oted)
13. Are matrices correctly identified on Chain of Custody?		Yes	~	No L	Adjusted?	-
14. Is it clear what analyses were requested?		10000	~	No 🗌	at	
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	✓	No 🗌	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with this order?		Yes		No 🗌	NA 🐱	
Person Notified:	Date	25				
By Whom:	Via:	eMai	Pho	ne 🗌 Fax	In Person	
Regarding. Client Instructions:						
17. Additional remarks:						
18. Cooler Information Cooler No Temp *C Condition Seal Intact	Seal No Sea	al Dat	e Si	gned By		
1 3.8 Good Yes						
Page 1 of 1				and a second second second		

		of-Cu	stody Record	Turn-Around	Time:	ASAP SAME DAK				100									NTA		
				Standard Project Name	Rush	SAME DAT				A	N	AL	YS	515	5 L	AE	30	RA	TO	RY	
			EERING INC.				-		15	١	www	/.hall	lenv	ironr	nent	al.co	m				
ailing	Address			GCL) Z42E			490	01 H	awki	ns N	IE -	Alb	uque	erque	e, NM	M 87	109			
-				Project #:				Те	1. 50	5-34	5-39	975	F	ax	505-	345-	410	7			
ione #	: (50	5) 3	zo-1183									and the second second				uest	and the second second				
	Fax#:			Project Mana	ger:			(h)	Â					(*)							
	Package:		Level 4 (Full Validation)	J.T			TMB's (8021)	+ TPH (Gas only)	SO / ME			(SMIS)		,PO4,SC	PCB's						
credi	tation			Sampler: 7	- BLAGE		1	Hd	D I	=	÷	202		VO2	3082						9
NEL	AP	□ Othe	er	On Ice:	Yes .	□ No	1 8	+	2	18.	04.	82	-	03,1	s / 8		(A)				or N
EDD	(Type)			Sample Terr	perature: 3	8	出	BE	(G	d 4	g pc	0 or	etals	N'N	ide	A	-10	LAN			2
)ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MR9)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
16	1415	SOIL	9- p= Comp (9-19'	402 × 1	COUL	-001	×	-	X									×			
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_																					
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																				-	-
					1																
te: 4/16 ite: 9/14	Time: 1505 Time: 1740	Relinquis	1 Blogy	Received by: Received by:	Watte	Date Time 4/29/16 1505 Date Time		mark		CON	tac		51			Ma HQ					

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 05, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 242E

OrderNo.: 1605063

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/3/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report	
Lab Order 1605063	
Date Reported: 5/5/2016	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: GCU 242E

Client Sample ID: SW Wall-E END 6-pt (8'-16') Collection Date: 5/2/2016 2:16:00 PM Received Date: 5/3/2016 8:05:00 AM

Lab ID: 1605063-001	Matrix:	SOIL	Received	Received Date: 5/3/2016 8:05:00 AM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	LGT				
Chloride	ND	30	mg/Kg	20	5/3/2016 12:16:05 PM	25117				
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	3			Analyst	KJH				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/3/2016 1:51:30 PM	25118				
Surr: DNOP	78.5	70-130	%Rec	1	5/3/2016 1:51:30 PM	25118				
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/3/2016 11:01:10 AM	A33952				
Surr: BFB	107	80-120	%Rec	1	5/3/2016 11:01:10 AM	A33952				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	5/3/2016 11:01:10 AM	B33952				
Toluene	ND	0.050	mg/Kg	1	5/3/2016 11:01:10 AM	B33952				
Ethylbenzene	ND	0.050	mg/Kg	1	5/3/2016 11:01:10 AM	B33952				
Xylenes, Total	ND	0.10	mg/Kg	1	5/3/2016 11:01:10 AM	B33952				
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	5/3/2016 11:01:10 AM	B33952				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 7
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1605063	

Date Reported: 5/5/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SW Wall W END 6-pt (8'-16) Project: GCU 242E Collection Date: 5/2/2016 2:22:00 PM Lab ID: 1605063-002 Matrix: SOIL Received Date: 5/3/2016 8:05:00 AM Analyses Result PQL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	5/3/2016 12:28:29 PM	25117
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3				Analyst	KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/3/2016 2:13:24 PM	25118
Surr: DNOP	71.0	70-130		%Rec	1	5/3/2016 2:13:24 PM	25118
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	14	4.8		mg/Kg	1	5/3/2016 11:24:39 AM	A33952
Surr: BFB	122	80-120	S	%Rec	1	5/3/2016 11:24:39 AM	A33952
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/3/2016 11:24:39 AM	B33952
Toluene	0.071	0.048		mg/Kg	1	5/3/2016 11:24:39 AM	B33952
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2016 11:24:39 AM	B33952
Xylenes, Total	0.31	0.097		mg/Kg	1	5/3/2016 11:24:39 AM	B33952
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	5/3/2016 11:24:39 AM	B33952

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank				
	D	Sample Diluted Due to Matrix	E	Value above quantitation range				
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 7				
	ND	ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits		Sample pH Not In Range				
	R			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 Analy	sis Labora	tory, Iı	1C.			Date Reported: 5/5/2016	5
CLIENT: Blagg Engineering Project: GCU 242E Lab ID: 1605063-003	Matrix:	SOIL	7 CORNER BASE E Side 4-pt /2016 2:26:00 PM /2016 8:05:00 AM				
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	5/3/2016 12:40:54 PM	25117
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	6				Analyst:	KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/3/2016 2:35:25 PM	25118
Surr: DNOP	79.8	70-130		%Rec	1	5/3/2016 2:35:25 PM	25118
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	5/3/2016 11:48:12 AM	A33952
Surr: BFB	102	80-120		%Rec	1	5/3/2016 11:48:12 AM	A33952
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.022		mg/Kg	1	5/3/2016 11:48:12 AM	B33952
Toluene	ND	0.043		mg/Kg	1	5/3/2016 11:48:12 AM	B33952
Ethylbenzene	ND	0.043		mg/Kg	1	5/3/2016 11:48:12 AM	B33952
Xylenes, Total	ND	0.086		mg/Kg	1	5/3/2016 11:48:12 AM	B33952
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	5/3/2016 11:48:12 AM	B33952

Analytical Report Lab Order 1605063

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of	of7
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	517
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix		Sample container temperature is out of limit as specific	ed

Analytical Report Lab Order 1605063 Date Reported: 5/5/2016

Hall Environmental Analysis Laboratory, Inc.

Project:

Lab ID:

CLIENT: Blagg Engineering Client Sample ID: SW CORNER BASE W Side 4-p GCU 242E Collection Date: 5/2/2016 2:31:00 PM Matrix: SOIL Received Date: 5/3/2016 8:05:00 AM 1605063-004 Result POL Oual Units **DF** Date Analyzed Batch

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	5/3/2016 12:53:19 PM	25117
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/3/2016 2:57:15 PM	25118
Surr: DNOP	72.6	70-130	%Rec	1	5/3/2016 2:57:15 PM	25118
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst:	NSB
Gasoline Range Organics (GRO)	5.3	3.8	mg/Kg	1	5/3/2016 12:11:47 PM	A33952
Surr: BFB	115	80-120	%Rec	1	5/3/2016 12:11:47 PM	A33952
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.020	0.019	mg/Kg	1	5/3/2016 12:11:47 PM	B33952
Toluene	0.045	0.038	mg/Kg	1	5/3/2016 12:11:47 PM	B33952
Ethylbenzene	ND	0.038	mg/Kg	1	5/3/2016 12:11:47 PM	B33952
Xylenes, Total	0.10	0.077	mg/Kg	1	5/3/2016 12:11:47 PM	B33952
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	5/3/2016 12:11:47 PM	B33952

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detect
	D	Sample Diluted Due to Matrix	Е	Value above qu
	н	Holding times for preparation or analysis exceeded	J	Analyte detect
	ND	Not Detected at the Reporting Limit	Р	Sample pH No
	R	RPD outside accepted recovery limits	RL	Reporting Dete
	S	% Recovery outside of range due to dilution or matrix	W	Sample contain

- cted in the associated Method Blank
- quantitation range
- cted below quantitation limits Page 4 of 7
- lot In Range
- etection Limit
- iner temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605063

05-May-16

Client: Blagg Project: GCU	Engineering 242E
Sample ID LCS-25093	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25093 RunNo: 33949
Prep Date: 5/2/2016	Analysis Date: 5/3/2016 SeqNo: 1045935 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: DNOP	4.3 5.000 85.2 70 130
Sample ID LCS-25118	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 25118 RunNo: 33949
Prep Date: 5/3/2016	Analysis Date: 5/3/2016 SeqNo: 1045936 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00 0 97.1 65.8 136
Surr: DNOP	3.0 5.000 59.5 70 130 S
Sample ID MB-25093	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25093 RunNo: 33949
Prep Date: 5/2/2016	Analysis Date: 5/3/2016 SeqNo: 1045937 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.5 10.00 94.6 70 130
Sample ID MB-25118	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 25118 RunNo: 33949
Prep Date: 5/3/2016	Analysis Date: 5/3/2016 SeqNo: 1045938 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10
Surr: DNOP	7.2 10.00 71.6 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 7

- 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.

WO#: 1605063

05-May-16

Client: Blagg En Project: GCU 24	ngineering 2E	
Sample ID 5ML RB	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: A33952 RunNo: 33952	
Prep Date:	Analysis Date: 5/3/2016 SeqNo: 1046270 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000 1000 100 80 120	
Sample ID 2.5UG GRO LCS	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: A33952 RunNo: 33952	
Prep Date:	Analysis Date: 5/3/2016 SeqNo: 1046271 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0 25.00 0 88.9 80 120	
Surr: BFB	1100 1000 107 80 120	
Sample ID MB-25102	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: 25102 RunNo: 33952	
Prep Date: 5/2/2016	Analysis Date: 5/3/2016 SeqNo: 1046281 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: BFB	990 1000 99.5 80 120	-
Sample ID LCS-25102	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 25102 RunNo: 33952	
Prep Date: 5/2/2016	Analysis Date: 5/3/2016 SeqNo: 1046282 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: BFB	1100 1000 107 80 120	

Qualifiers:

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

Page 6 of 7

LABERT AJER THE CHERRENAL COM LEGEN / DAD AJERD CA SECON 19 AME	Hall	Environmental	Analysis	Laboratory,	Inc.
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WO#: 1605063

05-May-16

Client: Project:	Blagg En GCU 242	-									
Sample ID	5ML RB	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Bato	h ID: B3	3952		RunNo: 3	3952				
Prep Date:		Analysis I	Date: 5/	3/2016		SeqNo: 1	046344	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025					3			
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
	ofluorobenzene	1.0		1.000		103	80	120			
Sample ID	100NG BTEX LCS	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: B3	3952	F	RunNo: 3	3952				
Prep Date:		Analysis [Date: 5/	3/2016	8	SeqNo: 1	046345	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	102	75.3	123			
Toluene		0.96	0.050	1.000	0	95.5	80	124			
Ethylbenzene		0.91	0.050	1.000	0	90.8	82.8	121			
Xylenes, Total		2.7	0.10	3.000	0	89.4	83.9	122			
Surr: 4-Brom	ofluorobenzene	1.1	_	1.000		112	80	120			
Sample ID	MB-25102	SampT	уре: МВ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batcl	h ID: 251	102	F	RunNo: 3	3952				
Prep Date:	5/2/2016	Analysis D)ate: 5/3	3/2016	S	SeqNo: 1	046354	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.0		1.000		104	80	120			
Sample ID	LCS-25102	SampT	ype: LC:	S	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: 251	02	F	unNo: 3	3952				
Prep Date:	5/2/2016	Analysis D	ate: 5/3	3/2016	S	eqNo: 10	046361	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brome	ofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 7

- P Sample pH Not In RangeRL. Reporting Detection Limit
- W Sample container temperature is out of limit as specified

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- y.hallenvironmentai	NE 57109 Sam	nple Log-In Check List
Client Name: BLAGG Work Order Num	ber: 1605063		RoptNo: 1.
Received by/date: AT 05/03/16			
Logged By: Anne Thorne 5/3/2016 8:05:00 Al	M	anne In-	_
Completed By: Anne Thorne 5/3/2016 Reviewed By: 06/03/10		anne Il-	_
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 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	
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 🗹	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
3. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
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 🗔	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: Regarding: Client Instructions:		hone 🗌 Fax	In Person

- 17. Additional remarks:
- 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Page 1 of 1

			stody Record	Turn-Around	Time:	RUSH ASAP				E.			E	NV	TE	20			NTA	
lient: 1	3P A	MERIC	A	□ Standard	Rush	SAME DAF		· 188			the second second								TO	
			NEERWG INC.	Project Name				3	(land)			v.hal								
	Address:		NERVUS INC.	60	U 242	E		10	01 1								M 87	100		
_				Project #:			1			awki 5-34							4107			
hone #	. (SA	5137	0 - 1183					Te	a. 50	0-04	0-0.			-	-	uest	-			
mail or	-	5/00	0 110-	Project Mana	ger:			(y)	ĝ											
	ackage:		□ Level 4 (Full Validation)	J.B			s (8021	TPH (Gas only)	DRO / MRO)			SIMS)		PO4,SC	PCB's					
ccredit		Othe	er	Sampler: J On loe:		No No		HdT +	-	18.1)	04.1)	8270 S		03, NO2,	1 8082		(A)			or N)
1 EDD	(Type)_		The second s	Sample Tem	perature:	13 million		H	(GF	d 4	g po	0 or	etals	U'NC	ides	(A)	07-	(AI		Z
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	BTEX + 4411 BE + 1141 BY (8021)	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHURDE		Air Bubbles (Y or N)
2016	1416	SOIL	SW Wall - EAST END 6-Dt (8-199316)	402×1	COOL	105-	×	-	x	1	-	-					~	X		
11	1422	11	CIULINI) - WEITER		11	202	x		X						-			X		
ч	1426	ч	SW CORNER BASE	()	1/	203	X		x					1				X	+	
h	1431	11	6-PE (8'-16') SW CORNER BASE EAST SIDE 4-PE CIP SW COMMER BASE WEST SIDE 4-PE 0.18	, Il	Ø	200	X		x								-	X		
															-					
							-	-		-		-				-	-		_	
						1				-				1	-	-	-			
-							-			-	-								_	
	-						+		+	-	-	-	-	-	+	-	-		-	
late: 2/16 hate:	Time: 1708 Time:	Relinguis	hed by: Blogg hed by:	Received by:	rephele	Date Time	Re	marl			TAC									
2/14	1837	1311		T Ca	hm =	205/03/14	+	-	6		-bes et	ad date			de est	ante da	the s	an al dia	-1	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

May 05, 2016

Jeff Blagg Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 242E

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

OrderNo.: 1605112

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/4/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1605112 Date Reported: 5/5/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: Southwest Base 3-pt @ 17'

 Project: GCU 242E
 Collection Date: 5/3/2016 2:10:00 PM

 Lab ID: 1605112-001
 Matrix: SOIL
 Received Date: 5/4/2016 7:55:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch

	No. of Concession, name	The state of the s	the second se	The local division in which the	AND INCOME AND INCOME AND INCOME.	the second day of the
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	5/4/2016 12:17:00 PM	25147
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Analyst:	KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/4/2016 11:24:22 AM	25140
Surr: DNOP	101	70-130	%Rec	1	5/4/2016 11:24:22 AM	25140
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/4/2016 11:17:01 AM	25130
Surr: BFB	94.0	80-120	%Rec	1	5/4/2016 11:17:01 AM	25130
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	0.19	0.025	mg/Kg	1	5/4/2016 11:17:01 AM	25130
Toluene	ND	0.050	mg/Kg	1	5/4/2016 11:17:01 AM	25130
Ethylbenzene	ND	0.050	mg/Kg	1	5/4/2016 11:17:01 AM	25130
Xylenes, Total	ND	0.10	mg/Kg	1	5/4/2016 11:17:01 AM	25130
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	5/4/2016 11:17:01 AM	25130

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
Quantiersi	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1605112 Date Reported: 5/5/2016

5/4/2016 11:46:17 AM

5/4/2016 11:46:17 AM

5/4/2016 11:40:33 AM

25140

25140

25130

25130

25130

25130

25130

25130

25130

Analyst: NSB

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

Diesel Range Organics (DRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	Blagg Engineering		C	lient Sampl	le ID: W	est Wall South End 9	-PT (7'-1
Project:	GCU 242E			Collection	Date: 5/3	3/2016 2:17:00 PM	
Lab ID:	1605112-002	Matrix: S	SOIL	Received	Date: 5/4	/2016 7:55:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analy	st: LGT
Chloride		ND	30	mg/Kg	20	5/4/2016 12:29:24 PM	A 25147
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analy	st: KJH

10

5.9

80-120

0.030

0.059

0.059

0.12

80-120

70-130

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

ND

101

10

111

0.077

0.30

ND

0.60

98.4

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

** **			T
Hall	Environmental	Analysis Laboratory,	Inc.
man	I Environmental.	Analysis Laboratory,	, Inc.

WO#: 1605112

05-May-16

	Blagg Engineering GCU 242E
Sample ID MB-2514 Client ID: PBS	7 SampType: MBLK TestCode: EPA Method 300.0: Anions Batch ID: 25147 RunNo: 34005
Prep Date: 5/4/2010	Analysis Date: 5/4/2016 SeqNo: 1047798 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID LCS-2514	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 25147 RunNo: 34005
Prep Date: 5/4/2016	Analysis Date: 5/4/2016 SeqNo: 1047799 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00 0 94.3 90 110

Qualifiers:

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

Page 3 of 6

WO#: 1605112

05-May-16

									Engineering 42E	Blagg GCU 2	Client: Project:
	e Organics	el Range	8015M/D: Die	PA Method	Code: EF	Test	S	ype: LC	SampT	LCS-25140	Sample ID
				3966	unNo: 33	R	140	ID: 25	Batch	LCSS	Client ID:
		g	Units: mg/K	047132	eqNo: 10	S	4/2016	ate: 5/4	Analysis D	5/4/2016	Prep Date:
Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL	Result		Analyte
			136	65.8	93.0	0	50.00	10	46	Organics (DRO)	Diesel Range C
			130	70	94.2		5.000		4.7		Surr: DNOP
	e Organics	sel Range	8015M/D: Die	A Method	Code: EF	Test	BLK	ype: MB	SampT	MB-25140	Sample ID
				3966	unNo: 33	R	140	ID: 251	Batch	PBS	Client ID:
		g	Units: mg/K	047133	eqNo: 10	S	4/2016	ate: 5/4	Analysis D	5/4/2016	Prep Date:
Qual	RPDLimit	%RPD	HighLimit	LowLimit	%REC	SPK Ref Val	SPK value	PQL	Result		Analyte
								10	ND	Organics (DRO)	Diesel Range C
			130	70	97.9		10.00		9.8		Surr: DNOP
			130	70	97.9	1	10.00	10		0 1 7	

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
- R RPD outside accepted recovery limits
- 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

Page 4 of 6

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1605112

05-May-16

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 910 1000 91.4 80 120 Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 25130 RunNo: 33977 Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu	Client: Blagg J Project: GCU 2	Engineering 42E	
Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 910 1000 91.4 80 120 Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 25130 RunNo: 33977 Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.8 80 120	Client ID: PBS	Batch ID: 25130	RunNo: 33977
Surr: BFB 910 1000 91.4 80 120 Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 25130 RunNo: 33977 Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.8 80 120	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Client ID: LCSS Batch ID: 25130 RunNo: 33977 Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.8 80 120	Gasoline Range Organics (GRO) Surr: BFB		91.4 80 120
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.8 80 120			
Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.8 80 120	Prep Date: 5/3/2016	Analysis Date: 5/4/2016	SeqNo: 1047282 Units: mg/Kg
	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
	Gasoline Range Organics (GRO) Surr: BFB		

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
- R RPD outside accepted recovery limits
- 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

Page 5 of 6

Hall	Environmental	Analysis	Laboratory,	Inc.

WO#: 1605112

05-May-16

Client: Blagg Project: GCU	Engineering 242E									
Sample ID MB-25130	SampTy	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date: 5/3/2016	Analysis Di	ate: 5	/4/2016		SeqNo: 1	047315	Units: mg/k	٢g		
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								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	80	120			
Sample ID LCS-25130	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date: 5/3/2016	Analysis Da	ate: 5/	4/2016	5	SeqNo: 1	047316	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	75.3	123			
Toluene	0.93	0.050	1.000	0	93.3	80	124			
thylbenzene	0.88	0.050	1.000	0	88.0	82.8	121			
(ylenes, Total	2.6	0.10	3.000	0	87.2	83.9	122			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	80	120			

Qualifiers:

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

Page 6 of 6

RL Reporting Detection Limit

ANALYSIS LABORATORY TEL: 505-3	nmental Analysis Labor 4901 Hawkin Albuquerque, NM 8 45-3975 FAX: 505-345- www.hallenvironmenta	ns NE 87109 Sam 4107	ple Log-In Check List
Client Name: BLAGG Work Order N	Number: 1605112	and a start of the	RoptNo: 1
Received by/date: UM 05/04/16			
Logged By: Anne Thorne 5/4/2016 7:55:0	MA 00	anne Han	~
Completed By: Anne Thorne 5/4/2016		anne the	_
Reviewed By2/AS-US/64/16			
hain 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		
og In			
	×	No. 🗖	
4. Was an attempt made to cool the samples?	Yes 🗹	No	
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 🗹		
8. Are samples (except VOA and ONG) properly preserved?	Yes Ves	No 🔽	NA 🗌
9. Was preservative added to bottles?	Yes 🗋		
0.VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗹
1. Were any sample containers received broken?	Yes	No 🗹	# of preserved
2. Does paperwork match bottle labels?	Yes 🗹	No 🗆	bottles checked for pH:
(Note discrepancies on chain of custody)		-	(<2 or >12 unless noted
3. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
4. Is it clear what analyses were requested?	Yes 🗹	No 🗌	Checked by:
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes 🗹	No 🗌	
pecial Handling (if applicable)			
6. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
	particular and a second se		
	ia: 🗍 eMail 🦳 P	hone 🗌 Fax	In Person
Regarding:			
Client Instructions:	· · · · · · · · · · · · · · · · · · ·		and the second second second
7. Additional remarks:			
3. Cooler Information			
Cooler No Temp °C Condition Seal Intact Seal N	o Seal Date	Signed By	

Page 1 of 1

Chain-of-Custody Record ilient: BP AMERICA BLAGG ENGINEERING, INC. Tailing Address:			Turn-Around T Standard Project Name: GCU Project #:	Rush	ASAP SAME DAK				A	ns N	AL v.hall IE - 975	envi Albi	ironr uque	nent erque	AE al.co a, NN 345-	301 om VI 87 4107	RA 109	AL		
mail or	Fax#: ackage: dard	5) 32	D - 1193	Project Manag J. B Sampler: J	LAGO		Etviter's (8021)	TPH (Gas only)	DRO (11120)			SIMS)	naly			uest				
) NELA	λP	□ Othe Matrix	Sample Request ID	On Ice Sample Temp	Preservative Type	⊡ No.	BTEX + MTBE # Th	+	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLURIDE		Air Bubbles (Y or N)
1/2016 11	1410	SOIL 11	Sarthwest Base 3-pt Q 17 West Wall South end 9-pt (7'-16')	4 02 × 1 v	600L Ic	-201	××		× ×									× ×		
ate: 2016 ate:	Time: 1820 Time: 1940	Relinquis	4 Blogg	Received by:	the Wa	Date Time <u>15 53/16 1820</u> Date Time 05 63/16 07E	Re	mark			VIX	π : : > :	IMC	756	HQ	FEC				

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District 1 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 63143-1183

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1.	Generator Name and Address: BP America Production Co. 200 Energy Ct. Farmington, NM 87401
2.	Originating Site: Gallegos Canyon Unit 242E Paykey: VHIXONEVRM April / May 2016
3.	Location of Material (Street Address, City, State or ULSTR): QRT/QRT: NE/SW Unit: K Section: 24 T28N R12W
4.	Source and Description of Waste: Hydrocarbon impacted soil derived from a below grade tank and a former earthen pit.
Est	timated Volume 120 yd / bbls Known Volume (to be entered by the operator at the end of the haul) 327 gd / bbls
cer	Steve Moskal GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS BP America Production Company do hereby tify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 ulatory determination, the above described waste is: (Check the appropriate classification)
	RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load
	RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
	MSDS Information 🔲 RCRA Hazardous Waste Analysis 🖾 Process Knowledge 🗌 Other (Provide description in Box 4)
	GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS Steve Moskal BP America Production Company ,, representative for testing/sign the Generator Waste Testing Certification.
repr have	<u>August</u> , representative for <u>Envirofech</u> do hereby certify that esentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples a been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results he representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 5.36 NMAC.
	Transporter: ssfire
CD	Permitted Surface Waste Management Facility
Na	me and Facility Permit #: Envirotech Landfarm #2; Permit # NM-01-0011
٨d	dress of Facility: #43 CR 7175, 14 Miles S of Bloomfield, NM
Me	thod of Treatment and/or Disposal:
	Evaporation Injection Treating Plant A Landfarm Landfill Other
asto	Acceptance Status:
01010	
	ATURE: Surface Waste Management Facility Authorized Agent TITLE: Environmental Manager DATE: 6/2/16 TELEPHONE NO.: 505-632-0615