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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Gallegos Canyon Unit 264	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 3004520656

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
E	17	28N	12W	1,630	North	1,150	West	

Latitude 36.66512° **Longitude** -108.14076°

NATURE OF RELEASE

Type of Release: Former earthen pit – condensate/produced water	Volume of Release: unknown	Volume Recovered: none
Source of Release: Former earthen pit	Date and Hour of Occurrence:	Date and Hour of Discovery: May 10, 2016
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom? Steve Moskal	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3

AUG 09 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Impacts were discovered beneath a below grade tank during closure sampling. Impacts may have been associated with tank integrity as a corrosion hole was identified during inspection of the tank. Laboratory results confirmed the release exceeded the BGT closure standard and the spill and release guidelines. Remedial excavation then followed with impacts determined to be off location beneath an adjacent ephemeral wash. The excavation was stopped per the landowner's request and two phases of soil boring investigations were used to determine the extents of the remaining impacts. The attached report details the results and finding of the most recent soil boring investigation.

Describe Area Affected and Cleanup Action Taken.* A total of 3,700 cubic yards of soil was excavated from the impact area. Approximately 2,531 cubic yards of soil was excavated and removed from the site for landfarm treatment. The excavation measured 75'x95'x18' maximum depth. A single portion of the excavation had remaining impacts along the SW wall at a depth of 15-16' which was on the edge of the well location and at the interface of an ephemeral wash. The area of remaining contaminants is off the pad disturbance area and required landowner approval for excavation. The excavation was backfilled per landowner approval. BP further delineated the area of remaining impacts beneath the ephemeral wash via a soil boring investigation. The investigation determined the extents of impacts both vertically and horizontally. The results of investigation determined a relatively small amount of impacts pinch out beneath the wash, estimated to be approximately 220 cubic yards beneath approximately 1,500 cubic yards of clean overburden. BP believes these impacts to be historical and have very little impact to vegetation; no impact to groundwater; and absolutely no impact to surface water (depth of impacts at 16-22'). BP request no further action at the site pending OCD approval. The landowner has requested no further action.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 9/5/2017	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☒
Date: August 8, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

NCS1613445286

40

Fields, Vanessa, EMNRD

From: Fields, Vanessa, EMNRD
Sent: Thursday, August 31, 2017 1:54 PM
To: 'Moskal, Steven'
Cc: Smith, Cory, EMNRD
Subject: Gallegos Canyon Unit #264 Conditions of Approval

Steve,

OCD District III Office received a Final C-141 on August 09, 2017 in regards to the Gallegos Canyon Unit # 264 API# (30-045-20656) which has been approved with the following conditions of approval.

- BP has until November 30, 2017 to return to the site to perform either additional delineation or remediation in the South East portion of the well pad (GP 18).
- BP will notify the OCD at least 72 hours but no more than 1 week prior to the start of remediation/delineation.

If you have any questions please give me a call.

Thank you,
Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

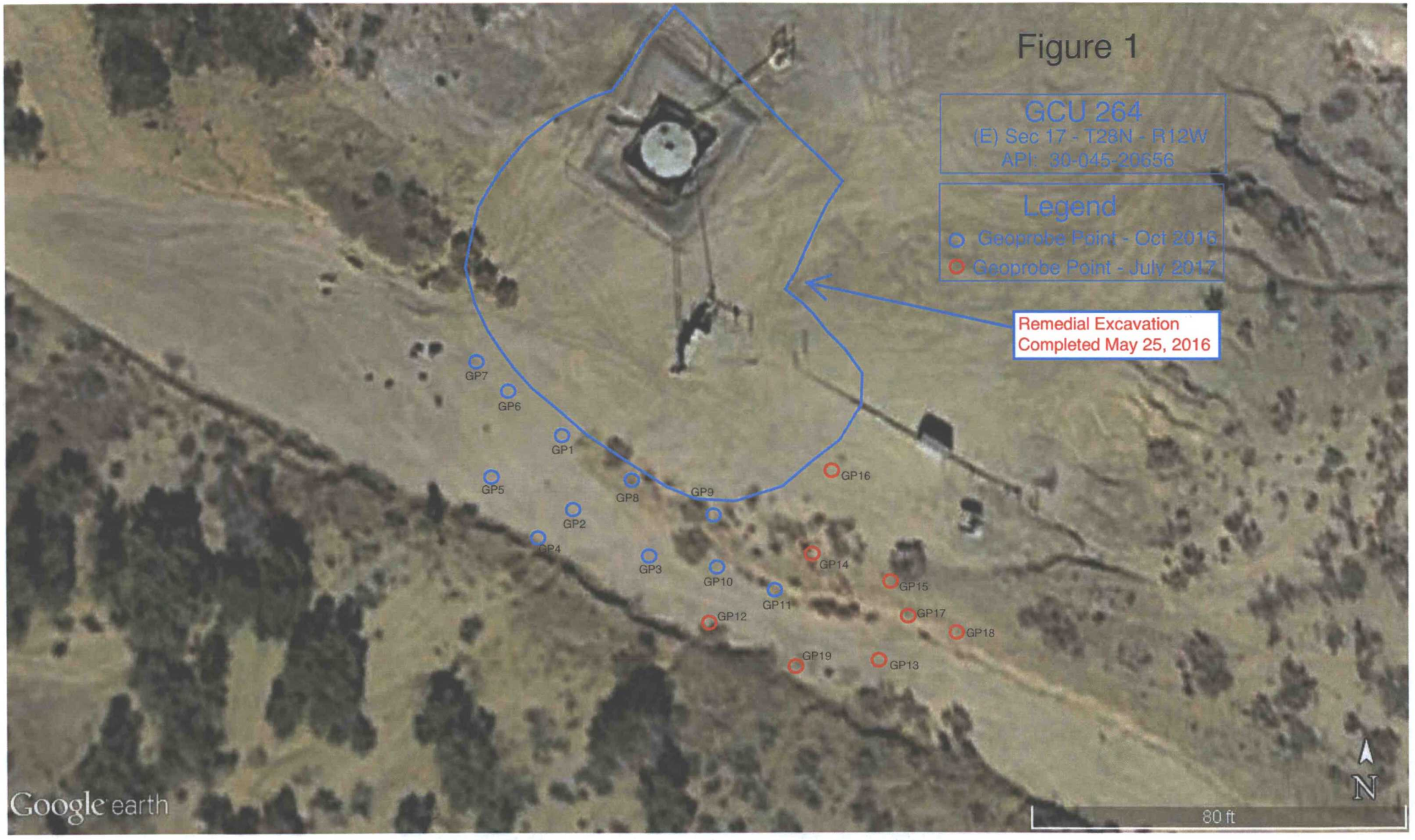
Figure 1
GCU 264
(E) Sec 17 - T28N - R12W
API: 30-045-20656
Legend
Geoprobe Point - Oct 2016
Geoprobe Point - July 2017
Remedial Excavation
Completed May 25, 2016
GP7
GP6
GP1
GP5
GP8
GP9
GP16
GP2
GP4
GP3
GP10
GP14
GP15
GP11
GP17
GP12
GP18
GP19
GP13
N
80 ft
Google earth

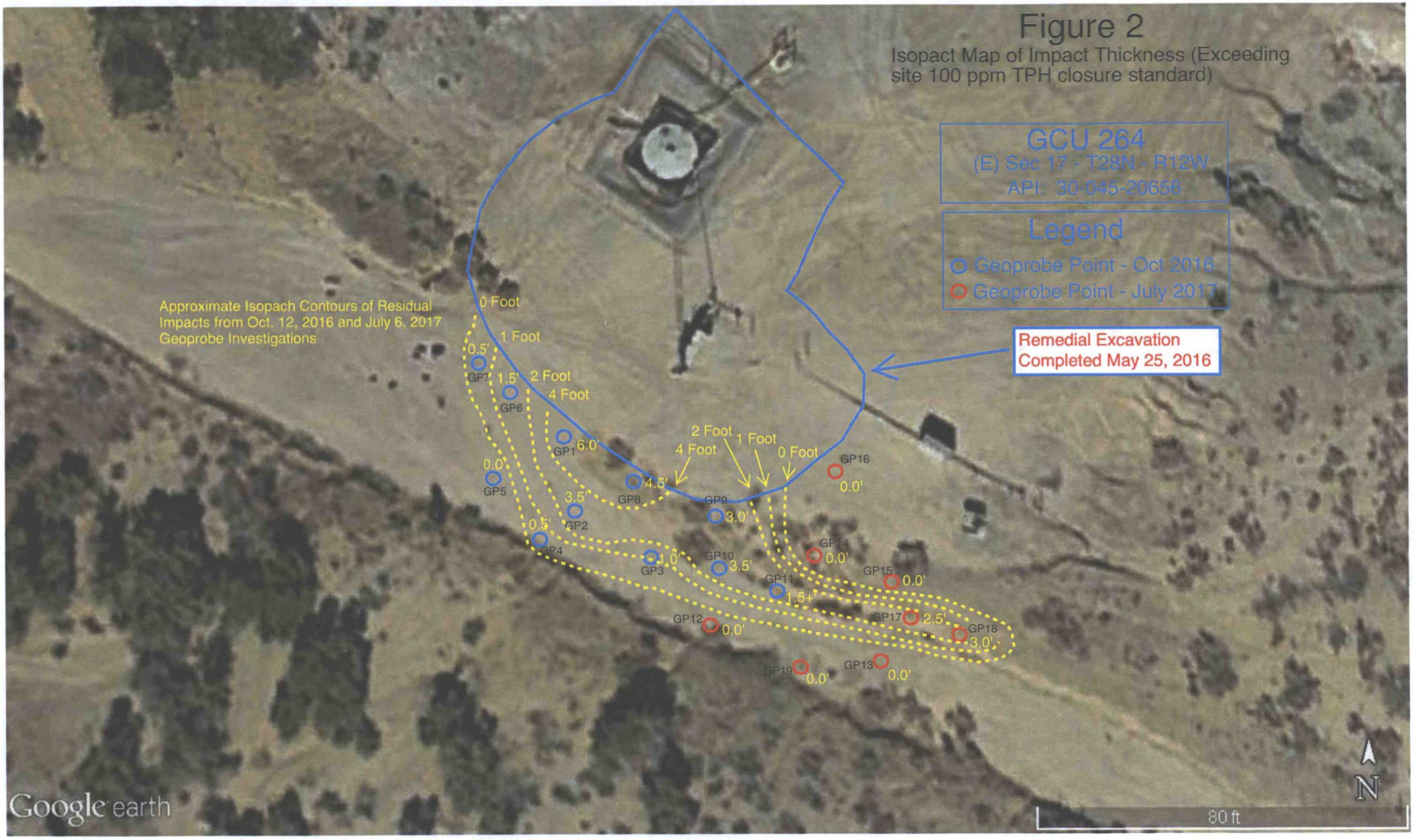
Figure 2
Isopact Map of Impact Thickness (Exceeding site 100 ppm TPH closure standard)
GCU 264
(E) Sec 17 - T28N - R12W
API: 30-045-20656
Legend
Geoprobe Point - Oct 2016
Geoprobe Point - July 2017
Remedial Excavation Completed May 25, 2016
Approximate Isopach Contours of Residual Impacts from Oct. 12, 2016 and July 6, 2017 Geoprobe Investigations
0 Foot
1 Foot
2 Foot
4 Foot
GP1 6.0'
GP2 3.5'
GP3 1.0'
GP4 0.5'
GP5 0.0'
GP6 1.5'
GP7 0.5'
GP8 4.5'
GP9 3.0'
GP10 3.5'
GP11 1.5'
GP12 0.0'
GP13 0.0'
GP14 0.0'
GP15 0.0'
GP16 0.0'
GP17 2.5'
GP18 3.0'
GP19 0.0'
Google earth
N
80 ft

Boring Logs

BLAGG ENGINEERING, INC.

P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATED 15' FROM GP-10

FIELD BORING LOG

BORING ID: GP-12

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe 7720 DT
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 22' CASING TYPE & SIZE: — SLOT SIZE: —
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	0825	1" sleeve ↓		START
2'				
3'				Recover 6" Dry Silty SAND, NO/NS
4'	0830			
5'				
6'				
7'				SAA, Recover 24", Lite Moisture
8'	0839			
9'				
10				Recover, 44", SAA
11'				
12'	0842			
13'				
14'				Recover 40", SAA
15'				
16'	0847	Lab Sample (15' - 16') TPH=ND	2.7	
17'		Recover 40"		SAA 16' - 18'
18'				
19'				18' - 19½', Increased Moisture, Red Streaks, NO/NS
20	0854	Lab Sample 2-pt Comp (19' - 22') TPH=15 PPM	3.8	19½' - 20' Gray Shalestone, Dense, NO/NS.
21'				
22'	0907		1.9	Recover 30", olive Green Shalestone, lite Moisture, NO/NS
23'				REFUSAL @ 22'
24'				
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.

P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

Located 21' FROM GP-11

FIELD BORING LOG

BORING ID: GP-13

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 21' CASING TYPE & SIZE: - SLOT SIZE: -
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	0928	1" sleeve ↓		START
2'				RECOVER 24" DRY SILTY SAND, NO/NS
3'				
4'	0932			
5'				
6'				RECOVER 28" SAA, LITE MOISTURE
7'				
8'	0935			
9'				
10				RECOVER 38" SAA
11'				
12'	0939			
13'				
14'				RECOVER 40", SAA
15'				
16'	0943	Lab Sample (15' - 16') TPH=ND	5.2	
17'		RECOVER 36"		SAA 16' - 19', WITH INCREASED MOISTURE NO/NS
18'				19' - 19 3/4' SAA WITH RED STREAKS NO/NS
19'				
20	0949	Lab Sample 2-pt Comp (19' - 21') TPH=15 PPM	24.4	19 3/4' - 20' GRAY SHALESTONE ~~NO/NS~~, V LITE HC ODOR
21'	0958		3.7	RECOVER 14" OLIVE GREEN SHALESTONE, NO/NS
22'		REFUSAL @ 21'		
23'				
24'				
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.

P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

Located 15' NE of GP-11

FIELD BORING LOG

BORING ID: GP-14

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 23½ CASING TYPE & SIZE: - SLOT SIZE: -
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	START @ 1014	1" Sleeve ↓		START
2'				Recover 14" Dry, silty SAND, NO/NS
3'				
4'	1016			
5'				
6'				Recover 24" SAA, Increased Moisture
7'				
8'	1018			
9'				
10				
11'				Recover 40" SAA
12'	1022			
13'				
14'				Recover 30" SAA
15'				
16'	1026		5.1	
17'		Recover 44"		SAA 16'-17'
18'			7.5	17'-18' Lite olive Green shalestone, NO/NS
19'				18'-20' SAA, No Stain, Lite HC ODOR
20	1034		346	
21'	Lab Sample 2-pt Comp (19' - 23') TPH=40 PPM			
22'		Recover 45"		SAA, with lite Gray Streaking
23'	1045		828	
24'	1110 Lab Sample (23' - 23.5') TPH=213 PPM		15.0	
25'		REFUSAL @ 23½'		
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD BORING LOG

BORING ID: GP-15

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 24' CASING TYPE & SIZE: ~ SLOT SIZE: ~
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sample sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	1132	1" sleeve		START
2'				Recover 14" Dry silty SAND, NO/NS
3'				
4'	1135			
5'				
6'				Recover 36" SAA, increased Moisture
7'				
8'	1138			
9'				
10 11'				Recover 40" SAA
12'	1142			
13'				
14'				Recover 34" SAA
15'				
16'	1149		2.5	
17'		Recover 44"		SAA 16'-18'
18'				18'-19': Olive Green Shalestone, NO/NS
19'			41.6	
20 21'	1153		11.0	19'-20': Olive Green Shalestone, No stain, lite HC odor.
22'	Lab Sample 2-pt Comp (20'-23') TPH=55 PPM	Recover 48"	989	Olive Green Shalestone, Grey Streakly, lite HC odor
23'				
24'	1219 Lab Sample (23'-24') TPH=51 PPM		595	
25'		REFUSAL @ 24'		
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD BORING LOG

BORING ID: GP-16

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 23' CASING TYPE & SIZE: — SLOT SIZE: —
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	1304			STACT
2'				Recover 14" silty sand, dry
3'				
4'	1306			
5'				
6'				
7'				Recover 36" silty sand, lite moisture, NO/NS
8'	1309			
9'				
10				
11'				Recover 40", SAA
12'	1314			
13'		Recover 44"		SAA 12'-13'
14'				13'-16' Olive Green Shalestone, NO/NS
15'				
16'	1319		2.4	
17'				
18'	Lab Sample 3-pt Comp (17'-21') TPH=34 PPM	Recover 48"	55.6	SAA, Except lite HC ODOR 18'-20'
19'				+ minor Grey Streaking
20	1325		905	
21'			451	
22'		Recover 40"		SAA, minor HC ODOR + Streaking
23'	Lab Sample (22'-23') TPH=57 PPM 1403		504	
24'		REFUSAL @ 23'		
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD BORING LOG

BORING ID: GP-17

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 23' CASING TYPE & SIZE: — SLOT SIZE: —
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	1427	1" sleeve		
2'		↓		Recover 12" Dry Silty SAND
3'				
4'	1431			
5'				
6'				Recover 30", SAA, Increased Moisture
7'				
8'	1434			
9'				
10				
11'				Recover 36" SAA
12'	1439			
13'		Recover 48"		
14'				SAA, NO/NS
15'				
16'	1444		2.9	
17'				SAA 16'-19'
18'			1.6	Lab Sample 2-pt Comp (17' - 20') TPH=ND
19'				
20	1451	Recover 48"	3.9	19'-20' olive Green Shalestone, NO/NS
21'				
22'			697	Lab Sample 2-pt Comp (20.5' - 23') TPH=272 PPM
23'	1501		2301	Shalestone, gray to black streaking, strong hydrocarbon odor
24'		Refusal @ 23'		
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.

P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD BORING LOG

BORING ID: GP-18

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 23' CASING TYPE & SIZE: - SLOT SIZE: -
COMMENTS: Samples collected with 4' Long x 1" diameter pvc sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	1918	1" Shew		STAC>
2'		↓		Recover 12" Dry Silty Sand
3'				
4'	1522			
5'				
6'				Recover 36" SAA, increased Moisture, NO/NS
7'				
8'	1524			
9'				
10				
11'				Recover 36" SAA
12'	1528			
13'				
14'				Recover 48", SAA
15'				
16'	1540		1.1	
17'				
18'				Recover 48", SAA
19'				
20	1540	Lab Sample (2-pt Comp) (19'-22') TPH=590 PPM	2.1	
21'		Recovery 24"	123	SAA 20'-21'
22'		Lab Sample (22'-23')		21'-22': SAA Except lite Gray streaks
23'	1550	TPH=553 PPM	46	22'-22½': Black consolidated sand, Lite HC ODOR
24'	Refusal @ 23'			22½'-23' Brown/Orange, Possible Sandstone surface
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIELD BORING LOG

BORING ID: GP-19

PROJECT: GCU 264
CLIENT: BP America Production Co.
DRILLING CONTRACTOR: Envirodrill
EQUIPMENT USED: Geoprobe
DATE START: 7/6/2017 DATE FINISH: 7/6/2017 DRILLER: EC LOGGED BY: JB
TOTAL DEPTH: 23' CASING TYPE & SIZE: — SLOT SIZE: —
COMMENTS: Using 5' Rods & Sleeves

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	OVM (ppm)	SAMPLE DESCRIPTION
1'	1640	1" Sleeve ↓		START
2'				
3'				Recover 24" Dry silty SAND
4'				
5'	1646			
6'				
7'				
8'				Recover 40" SAA, Increased moisture
9'				
10	1649			
11'				
12'				
13'				Recover 40", SAA
14'				
15'	1652		3.6	
16'				
17'		Lab Sample 2-pt Comp (16' - 19') TPH=ND	1.0	Recover 40", SAA, NO/NS, Red 1" Streak @ 19'
18'				
19'				
20	1655		3.1	
21'				Recover 36", SAA, V. Moist @ 22'-23', NO/NS
22'		Lab Sample 2-pt Comp (21' - 23') TPH=72 PPM	3.2	
23'	1704		1.6	
24'	Refusal @ 23'			
25'				
26'				
27'				
28'				
29'				
30				

Note: SAA = Same as Above
NO/NS = No Odor/No Stain

Laboratory Analytical Reports

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

July 24, 2017

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

RE: GCU 264 OrderNo.: 1707644

Dear Steven Moskal:

Hall Environmental Analysis Laboratory received 16 sample(s) on 7/11/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-001 **Matrix:** SOIL

Client Sample ID: GP-12 (15-16)
Collection Date: 7/6/2017 8:47:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	32	30		mg/Kg	20	7/20/2017 11:19:11 PM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2017 2:18:37 PM	32803
Surr: BFB	93.2	70-130		%Rec	1	7/18/2017 2:18:37 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2017 2:30:41 PM	32806
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2017 2:30:41 PM	32806
Surr: DNOP	92.7	70-130		%Rec	1	7/17/2017 2:30:41 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 2:18:37 PM	32803
Toluene	ND	0.048		mg/Kg	1	7/18/2017 2:18:37 PM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2017 2:18:37 PM	32803
Xylenes, Total	ND	0.095		mg/Kg	1	7/18/2017 2:18:37 PM	32803
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/18/2017 2:18:37 PM	32803
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	7/18/2017 2:18:37 PM	32803
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/18/2017 2:18:37 PM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/18/2017 2:18:37 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-002 **Matrix:** SOIL

Client Sample ID: GP-12 (2-pt)(19-22)
Collection Date: 7/6/2017 9:07:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	45	30		mg/Kg	20	7/20/2017 11:56:26 PM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/18/2017 2:48:20 PM	32803
Surr: BFB	89.4	70-130		%Rec	1	7/18/2017 2:48:20 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	15	9.6		mg/Kg	1	7/17/2017 3:56:28 PM	32806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2017 3:56:28 PM	32806
Surr: DNOP	92.6	70-130		%Rec	1	7/17/2017 3:56:28 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	7/18/2017 2:48:20 PM	32803
Toluene	ND	0.047		mg/Kg	1	7/18/2017 2:48:20 PM	32803
Ethylbenzene	ND	0.047		mg/Kg	1	7/18/2017 2:48:20 PM	32803
Xylenes, Total	ND	0.094		mg/Kg	1	7/18/2017 2:48:20 PM	32803
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/18/2017 2:48:20 PM	32803
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	7/18/2017 2:48:20 PM	32803
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/18/2017 2:48:20 PM	32803
Surr: Toluene-d8	106	70-130		%Rec	1	7/18/2017 2:48:20 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-003 **Matrix:** SOIL

Client Sample ID: GP-13 (15-16)
Collection Date: 7/6/2017 9:43:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2017 12:08:50 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2017 4:17:51 PM	32803
Surr: BFB	94.2	70-130		%Rec	1	7/18/2017 4:17:51 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2017 4:24:52 PM	32806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2017 4:24:52 PM	32806
Surr: DNOP	94.8	70-130		%Rec	1	7/17/2017 4:24:52 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 4:17:51 PM	32803
Toluene	ND	0.048		mg/Kg	1	7/18/2017 4:17:51 PM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2017 4:17:51 PM	32803
Xylenes, Total	ND	0.097		mg/Kg	1	7/18/2017 4:17:51 PM	32803
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	1	7/18/2017 4:17:51 PM	32803
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	7/18/2017 4:17:51 PM	32803
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/18/2017 4:17:51 PM	32803
Surr: Toluene-d8	108	70-130		%Rec	1	7/18/2017 4:17:51 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-004 **Matrix:** SOIL

Client Sample ID: GP-13 (2-pt) (19-21)
Collection Date: 7/6/2017 9:58:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2017 12:21:15 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/18/2017 4:47:41 PM	32803
Surr: BFB	90.9	70-130		%Rec	1	7/18/2017 4:47:41 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	15	9.3		mg/Kg	1	7/17/2017 4:53:21 PM	32806
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2017 4:53:21 PM	32806
Surr: DNOP	93.2	70-130		%Rec	1	7/17/2017 4:53:21 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	7/18/2017 4:47:41 PM	32803
Toluene	ND	0.049		mg/Kg	1	7/18/2017 4:47:41 PM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2017 4:47:41 PM	32803
Xylenes, Total	ND	0.099		mg/Kg	1	7/18/2017 4:47:41 PM	32803
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	7/18/2017 4:47:41 PM	32803
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	7/18/2017 4:47:41 PM	32803
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/18/2017 4:47:41 PM	32803
Surr: Toluene-d8	103	70-130		%Rec	1	7/18/2017 4:47:41 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-005 **Matrix:** SOIL

Client Sample ID: GP-14 (3-pt) (19-23)
Collection Date: 7/6/2017 10:45:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	490	30		mg/Kg	20	7/21/2017 12:33:40 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	13	4.7		mg/Kg	1	7/18/2017 5:17:33 PM	32803
Surr: BFB	92.4	70-130		%Rec	1	7/18/2017 5:17:33 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	7/17/2017 5:21:58 PM	32806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2017 5:21:58 PM	32806
Surr: DNOP	93.7	70-130		%Rec	1	7/17/2017 5:21:58 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 5:17:33 PM	32803
Toluene	ND	0.047		mg/Kg	1	7/18/2017 5:17:33 PM	32803
Ethylbenzene	ND	0.047		mg/Kg	1	7/18/2017 5:17:33 PM	32803
Xylenes, Total	ND	0.095		mg/Kg	1	7/18/2017 5:17:33 PM	32803
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	7/18/2017 5:17:33 PM	32803
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	7/18/2017 5:17:33 PM	32803
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	7/18/2017 5:17:33 PM	32803
Surr: Toluene-d8	109	70-130		%Rec	1	7/18/2017 5:17:33 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-006 **Matrix:** SOIL

Client Sample ID: GP-14 (23-23 1/2)
Collection Date: 7/6/2017 11:10:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	940	30		mg/Kg	20	7/21/2017 12:46:04 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/18/2017 5:47:25 PM	32803
Surr: BFB	91.0	70-130		%Rec	1	7/18/2017 5:47:25 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	7/17/2017 5:50:17 PM	32806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2017 5:50:17 PM	32806
Surr: DNOP	95.5	70-130		%Rec	1	7/17/2017 5:50:17 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	7/18/2017 5:47:25 PM	32803
Toluene	ND	0.047		mg/Kg	1	7/18/2017 5:47:25 PM	32803
Ethylbenzene	ND	0.047		mg/Kg	1	7/18/2017 5:47:25 PM	32803
Xylenes, Total	ND	0.093		mg/Kg	1	7/18/2017 5:47:25 PM	32803
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	7/18/2017 5:47:25 PM	32803
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	7/18/2017 5:47:25 PM	32803
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/18/2017 5:47:25 PM	32803
Surr: Toluene-d8	106	70-130		%Rec	1	7/18/2017 5:47:25 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-007 **Matrix:** SOIL

Client Sample ID: GP-15 (2-pt) (20-23)
Collection Date: 7/6/2017 11:53:00 AM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	290	30		mg/Kg	20	7/21/2017 12:58:29 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	10	5.0		mg/Kg	1	7/18/2017 6:17:03 PM	32803
Surr: BFB	96.9	70-130		%Rec	1	7/18/2017 6:17:03 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	45	9.5		mg/Kg	1	7/17/2017 6:18:36 PM	32806
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2017 6:18:36 PM	32806
Surr: DNOP	95.3	70-130		%Rec	1	7/17/2017 6:18:36 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	7/18/2017 6:17:03 PM	32803
Toluene	ND	0.050		mg/Kg	1	7/18/2017 6:17:03 PM	32803
Ethylbenzene	ND	0.050		mg/Kg	1	7/18/2017 6:17:03 PM	32803
Xylenes, Total	ND	0.099		mg/Kg	1	7/18/2017 6:17:03 PM	32803
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/18/2017 6:17:03 PM	32803
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/18/2017 6:17:03 PM	32803
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	7/18/2017 6:17:03 PM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/18/2017 6:17:03 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-008 **Matrix:** SOIL

Client Sample ID: GP-15 (23-24)
Collection Date: 7/6/2017 12:10:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	280	30		mg/Kg	20	7/21/2017 1:10:54 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	7/18/2017 6:46:36 PM	32803
Surr: BFB	90.9	70-130		%Rec	1	7/18/2017 6:46:36 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	40	9.9		mg/Kg	1	7/17/2017 6:46:36 PM	32806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2017 6:46:36 PM	32806
Surr: DNOP	89.6	70-130		%Rec	1	7/17/2017 6:46:36 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 6:46:36 PM	32803
Toluene	ND	0.048		mg/Kg	1	7/18/2017 6:46:36 PM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2017 6:46:36 PM	32803
Xylenes, Total	ND	0.096		mg/Kg	1	7/18/2017 6:46:36 PM	32803
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	7/18/2017 6:46:36 PM	32803
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	7/18/2017 6:46:36 PM	32803
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/18/2017 6:46:36 PM	32803
Surr: Toluene-d8	106	70-130		%Rec	1	7/18/2017 6:46:36 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-009 **Matrix:** SOIL

Client Sample ID: GP-16 (3-pt) (17-21)
Collection Date: 7/6/2017 1:25:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	360	30		mg/Kg	20	7/21/2017 1:23:19 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	6.2	4.9		mg/Kg	1	7/18/2017 7:16:12 PM	32803
Surr: BFB	91.3	70-130		%Rec	1	7/18/2017 7:16:12 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	28	9.8		mg/Kg	1	7/17/2017 7:14:43 PM	32806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2017 7:14:43 PM	32806
Surr: DNOP	96.1	70-130		%Rec	1	7/17/2017 7:14:43 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 7:16:12 PM	32803
Toluene	ND	0.049		mg/Kg	1	7/18/2017 7:16:12 PM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2017 7:16:12 PM	32803
Xylenes, Total	ND	0.097		mg/Kg	1	7/18/2017 7:16:12 PM	32803
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	7/18/2017 7:16:12 PM	32803
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	7/18/2017 7:16:12 PM	32803
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	7/18/2017 7:16:12 PM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/18/2017 7:16:12 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-010 **Matrix:** SOIL

Client Sample ID: GP-16 (22-23)
Collection Date: 7/6/2017 2:03:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	470	30		mg/Kg	20	7/21/2017 1:35:43 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	20	4.9		mg/Kg	1	7/18/2017 7:45:44 PM	32803
Surr: BFB	98.0	70-130		%Rec	1	7/18/2017 7:45:44 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	37	9.5		mg/Kg	1	7/17/2017 7:42:49 PM	32806
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2017 7:42:49 PM	32806
Surr: DNOP	90.1	70-130		%Rec	1	7/17/2017 7:42:49 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 7:45:44 PM	32803
Toluene	ND	0.049		mg/Kg	1	7/18/2017 7:45:44 PM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2017 7:45:44 PM	32803
Xylenes, Total	ND	0.097		mg/Kg	1	7/18/2017 7:45:44 PM	32803
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	7/18/2017 7:45:44 PM	32803
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	7/18/2017 7:45:44 PM	32803
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/18/2017 7:45:44 PM	32803
Surr: Toluene-d8	106	70-130		%Rec	1	7/18/2017 7:45:44 PM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-011 **Matrix:** SOIL

Client Sample ID: GP-17 (2-pt) (17-20)
Collection Date: 7/6/2017 2:51:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	330	30		mg/Kg	20	7/21/2017 1:48:08 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2017 11:39:28 PM	32803
Surr: BFB	91.5	70-130		%Rec	1	7/18/2017 11:39:28 PM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2017 8:10:53 PM	32806
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2017 8:10:53 PM	32806
Surr: DNOP	92.9	70-130		%Rec	1	7/17/2017 8:10:53 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/18/2017 11:39:28 PM	32803
Toluene	ND	0.048		mg/Kg	1	7/18/2017 11:39:28 PM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2017 11:39:28 PM	32803
Xylenes, Total	ND	0.097		mg/Kg	1	7/18/2017 11:39:28 PM	32803
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	7/18/2017 11:39:28 PM	32803
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	7/18/2017 11:39:28 PM	32803
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	7/18/2017 11:39:28 PM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/18/2017 11:39:28 PM	32803

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

Qualifiers:

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

Analytical Report
Lab Order **1707644**
Date Reported: **7/24/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-012 **Matrix:** SOIL

Client Sample ID: GP-17 (2-pt) (20 1/2-23)
Collection Date: 7/6/2017 3:01:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	450	30		mg/Kg	20	7/21/2017 2:25:23 AM	32929
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	23	4.9		mg/Kg	1	7/19/2017 12:08:26 AM	32803
Surr: BFB	90.9	70-130		%Rec	1	7/19/2017 12:08:26 AM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	7/17/2017 9:07:10 PM	32806
Motor Oil Range Organics (MRO)	79	49		mg/Kg	1	7/17/2017 9:07:10 PM	32806
Surr: DNOP	98.8	70-130		%Rec	1	7/17/2017 9:07:10 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/19/2017 12:08:26 AM	32803
Toluene	ND	0.049		mg/Kg	1	7/19/2017 12:08:26 AM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2017 12:08:26 AM	32803
Xylenes, Total	ND	0.098		mg/Kg	1	7/19/2017 12:08:26 AM	32803
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	7/19/2017 12:08:26 AM	32803
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/19/2017 12:08:26 AM	32803
Surr: Dibromofluoromethane	99.3	70-130		%Rec	1	7/19/2017 12:08:26 AM	32803
Surr: Toluene-d8	111	70-130		%Rec	1	7/19/2017 12:08:26 AM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-013 **Matrix:** SOIL

Client Sample ID: GP-18 (2-pt) (19-22)
Collection Date: 7/6/2017 3:40:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	180	30		mg/Kg	20	7/21/2017 10:06:10 AM	32936
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2017 12:37:42 AM	32803
Surr: BFB	101	70-130		%Rec	1	7/19/2017 12:37:42 AM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	350	9.6		mg/Kg	1	7/17/2017 9:35:16 PM	32806
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	7/17/2017 9:35:16 PM	32806
Surr: DNOP	94.9	70-130		%Rec	1	7/17/2017 9:35:16 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	7/19/2017 12:37:42 AM	32803
Toluene	ND	0.049		mg/Kg	1	7/19/2017 12:37:42 AM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2017 12:37:42 AM	32803
Xylenes, Total	ND	0.098		mg/Kg	1	7/19/2017 12:37:42 AM	32803
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	7/19/2017 12:37:42 AM	32803
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/19/2017 12:37:42 AM	32803
Surr: Dibromofluoromethane	103	70-130		%Rec	1	7/19/2017 12:37:42 AM	32803
Surr: Toluene-d8	107	70-130		%Rec	1	7/19/2017 12:37:42 AM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-014 **Matrix:** SOIL

Client Sample ID: GP-18 (22-23)
Collection Date: 7/6/2017 3:50:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	200	30		mg/Kg	20	7/21/2017 10:43:24 AM	32936
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	23	4.8		mg/Kg	1	7/19/2017 1:07:06 AM	32803
Surr: BFB	86.3	70-130		%Rec	1	7/19/2017 1:07:06 AM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	290	9.4		mg/Kg	1	7/17/2017 10:03:20 PM	32806
Motor Oil Range Organics (MRO)	240	47		mg/Kg	1	7/17/2017 10:03:20 PM	32806
Surr: DNOP	98.7	70-130		%Rec	1	7/17/2017 10:03:20 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/19/2017 1:07:06 AM	32803
Toluene	ND	0.048		mg/Kg	1	7/19/2017 1:07:06 AM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/19/2017 1:07:06 AM	32803
Xylenes, Total	ND	0.096		mg/Kg	1	7/19/2017 1:07:06 AM	32803
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	7/19/2017 1:07:06 AM	32803
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/19/2017 1:07:06 AM	32803
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/19/2017 1:07:06 AM	32803
Surr: Toluene-d8	105	70-130		%Rec	1	7/19/2017 1:07:06 AM	32803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-015 **Matrix:** SOIL

Client Sample ID: GP-19 (2-pt) (16-20)
Collection Date: 7/6/2017 4:55:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2017 10:55:48 AM	32936
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2017 1:36:23 AM	32803
Surr: BFB	94.6	70-130		%Rec	1	7/19/2017 1:36:23 AM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2017 10:31:15 PM	32806
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2017 10:31:15 PM	32806
Surr: DNOP	89.2	70-130		%Rec	1	7/17/2017 10:31:15 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	7/19/2017 1:36:23 AM	32803
Toluene	ND	0.049		mg/Kg	1	7/19/2017 1:36:23 AM	32803
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2017 1:36:23 AM	32803
Xylenes, Total	ND	0.099		mg/Kg	1	7/19/2017 1:36:23 AM	32803
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	7/19/2017 1:36:23 AM	32803
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/19/2017 1:36:23 AM	32803
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	7/19/2017 1:36:23 AM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/19/2017 1:36:23 AM	32803

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

Qualifiers:

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

Analytical Report
Lab Order **1707644**
Date Reported: **7/24/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 264
Lab ID: 1707644-016 **Matrix:** SOIL

Client Sample ID: GP-19 (2-pt) (21-23)
Collection Date: 7/6/2017 5:04:00 PM
Received Date: 7/11/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2017 11:08:13 AM	32936
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/19/2017 2:05:34 AM	32803
Surr: BFB	94.5	70-130		%Rec	1	7/19/2017 2:05:34 AM	32803
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **MAB**	
Diesel Range Organics (DRO)	22	9.8		mg/Kg	1	7/17/2017 10:58:51 PM	32806
Motor Oil Range Organics (MRO)	50	49		mg/Kg	1	7/17/2017 10:58:51 PM	32806
Surr: DNOP	98.0	70-130		%Rec	1	7/17/2017 10:58:51 PM	32806
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	7/19/2017 2:05:34 AM	32803
Toluene	ND	0.048		mg/Kg	1	7/19/2017 2:05:34 AM	32803
Ethylbenzene	ND	0.048		mg/Kg	1	7/19/2017 2:05:34 AM	32803
Xylenes, Total	ND	0.096		mg/Kg	1	7/19/2017 2:05:34 AM	32803
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	7/19/2017 2:05:34 AM	32803
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	7/19/2017 2:05:34 AM	32803
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/19/2017 2:05:34 AM	32803
Surr: Toluene-d8	104	70-130		%Rec	1	7/19/2017 2:05:34 AM	32803

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID	**MB-32929**	SampType: **mblk**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **32929**		RunNo: **44377**					
Prep Date:	**7/20/2017**	Analysis Date: **7/20/2017**		SeqNo: **1402601**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-32929**	SampType: **lcs**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **32929**		RunNo: **44377**					
Prep Date:	**7/20/2017**	Analysis Date: **7/20/2017**		SeqNo: **1402602**		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			

Sample ID	**MB-32936**	SampType: **mblk**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **32936**		RunNo: **44426**					
Prep Date:	**7/21/2017**	Analysis Date: **7/21/2017**		SeqNo: **1404232**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-32936**	SampType: **lcs**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **32936**		RunNo: **44426**					
Prep Date:	**7/21/2017**	Analysis Date: **7/21/2017**		SeqNo: **1404233**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID **LCS-32806**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32806**	RunNo: **44252**
Prep Date: **7/14/2017**	Analysis Date: **7/17/2017**	SeqNo: **1397581** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.0	73.2	114			
Surr: DNOP	4.6		5.000		91.0	70	130			

Sample ID **MB-32806**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32806**	RunNo: **44252**
Prep Date: **7/14/2017**	Analysis Date: **7/17/2017**	SeqNo: **1397582** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Sample ID **1707644-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **GP-12 (15-16)**	Batch ID: **32806**	RunNo: **44251**
Prep Date: **7/14/2017**	Analysis Date: **7/17/2017**	SeqNo: **1398025** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.7	48.36	0	112	55.8	122			
Surr: DNOP	4.8		4.836		99.6	70	130			

Sample ID **1707644-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **GP-12 (15-16)**	Batch ID: **32806**	RunNo: **44251**
Prep Date: **7/14/2017**	Analysis Date: **7/17/2017**	SeqNo: **1398026** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.2	45.96	0	127	55.8	122	7.65	20	S
Surr: DNOP	4.8		4.596		105	70	130	0	0	

Sample ID **MB-32859**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32859**	RunNo: **44338**
Prep Date: **7/18/2017**	Analysis Date: **7/20/2017**	SeqNo: **1401060** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID **LCS-32859**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32859**	RunNo: **44338**
Prep Date: **7/18/2017**	Analysis Date: **7/20/2017**	SeqNo: **1401181** Units: **%Rec**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID	LCS-32859	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	32859		RunNo:	44338				
Prep Date:	7/18/2017	Analysis Date:	7/20/2017		SeqNo:	1401181	Units:	%Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.1	70	130			

Sample ID	LCS-32876	SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	32876		RunNo:	44338				
Prep Date:	7/19/2017	Analysis Date:	7/20/2017		SeqNo:	1402474	Units:	%Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.9	70	130			

Sample ID	MB-32876	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	32876		RunNo:	44338				
Prep Date:	7/19/2017	Analysis Date:	7/20/2017		SeqNo:	1402475	Units:	%Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID **mb-32803**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1398985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.4	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.3	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID **1707644-001AMS**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **GP-12 (15-16)**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1400325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	107	61.9	146			
Toluene	1.0	0.049	0.9785	0	105	70	130			
Ethylbenzene	0.93	0.049	0.9785	0	95.0	70	130			
Xylenes, Total	2.7	0.098	2.935	0	92.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.4892		101	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4892		97.0	70	130			
Surr: Dibromofluoromethane	0.50		0.4892		102	70	130			
Surr: Toluene-d8	0.52		0.4892		106	70	130			

Sample ID **1707644-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **GP-12 (15-16)**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1400326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.023	0.9355	0	101	61.9	146	9.49	20	
Toluene	0.96	0.047	0.9355	0	102	70	130	6.93	20	
Ethylbenzene	0.83	0.047	0.9355	0	89.0	70	130	11.1	0	
Xylenes, Total	2.4	0.094	2.806	0	86.1	70	130	11.3	0	
Surr: 1,2-Dichloroethane-d4	0.46		0.4677		97.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4677		96.5	70	130	0	0	
Surr: Dibromofluoromethane	0.44		0.4677		95.0	70	130	0	0	
Surr: Toluene-d8	0.50		0.4677		107	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID	lcs-32803	SampType:	LCS		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	LCSS	Batch ID:	32803		RunNo:	44302				
Prep Date:	7/14/2017	Analysis Date:	7/18/2017		SeqNo:	1400354	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	70	130			
Toluene	1.2	0.050	1.000	0	120	70	130			
Ethylbenzene	1.0	0.050	1.000	0	105	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.2	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.3	70	130			
Surr: Toluene-d8	0.54		0.5000		109	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707644**

24-Jul-17

Client: Blagg Engineering
Project: GCU 264

Sample ID **mb-32803**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1398988** 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	460		500.0		92.4	70	130			

Sample ID **lcs-32803**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1398989** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	122	70	130			
Surr: BFB	470		500.0		93.8	70	130			

Sample ID **1707644-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **GP-12 (2-pt)(19-22)**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1400299** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.97	0.9074	114	63.2	128			
Surr: BFB	430		479.4		89.4	70	130			

Sample ID **1707644-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **GP-12 (2-pt)(19-22)**	Batch ID: **32803**	RunNo: **44302**
Prep Date: **7/14/2017**	Analysis Date: **7/18/2017**	SeqNo: **1400300** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.95	0.9074	104	63.2	128	5.24	20	
Surr: BFB	460		499.0		92.7	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Order Number: 1707644 | RcptNo: 1

Received By: Anne Thorne 7/11/2017 7:00:00 AM

Completed By: Erin Melendrez 7/13/2017 1:12:25 PM

Reviewed By: ERE 07/13/17

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

Chain-of-Custody Record

Client: BP AMERICA
BLAGG ENGINEERING INC.
Mailing Address:
Phone #: (505) 320-1183
email or Fax#:
QA/QC Package:
[X] Standard [ ] Level 4 (Full Validation)
Accreditation
[ ] NELAP [ ] Other
[ ] EDD (Type)

Turn-Around Time:
[X] Standard [ ] Rush
Project Name: GCU 264
Project #:
Project Manager: STEVE MOSKAL
Sampler: JEFF BLAGG
On Ice: [X] Yes [ ] No
Sample Temperature: 1.0

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1707644	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/6/2017	0847	SOIL	GP-12 (15-16)	4oz x 1	COOL	-001	X		X									X				
	0907		GP-12 (2-pt) (19-22)			-002																
	0943		GP-13 (15-16)			-003																
	0958		GP-13 (2-pt) (19-21)			-004																
	1045		GP-14 (3-pt) (19-23)			-005																
	1110		GP-14 (23-23½)			-006																
	1153		GP-15 (2-pt) (20-23)			-007																
	1210		GP-15 (23-24)			-008																

Date	Time	Relinquished by:	Received by:	Date	Time
7/10/2017	1515			7/10/2017	1515
7/10/17	1810			07/11/17	0700

Remarks: BILL BP CONTACT: STEVE MOSKAL

Chain-of-Custody Record

Client: BP AMERICA

BLAGG ENGINEERING INC.

Mailing Address:

Phone #: (505) 320-1183

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GCU 264

Project #:

Project Manager: STEVE MOSKAL

Sampler: JEFF BLAGG

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
7/6/2017	1325	SOIL	GP-16(3-pt)(17-21)	4oz x 1	COOL	-009	X		X									X				
	1403		GP-16 (22-23)			-010																
	1451		GP-17(2-pt)(17-20)			-011																
	1501		GP-17(2-pt)(20½-23)			-012																
	1540		GP-18(2-pt)(19-22)			-013																
	1550		GP-18 (22-23)			-014																
	1655		GP-19(2-pt)(16-20)			-015																
	1704		GP-19(2-pt)(21-23)			-016																

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: BILL BP CONTACT: STEVE MOSKAL
7/10/2017	1515			7/10/2017	1515	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
7/10/17	1810			07/11/17	0700	PAGE 2 OF 2

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.