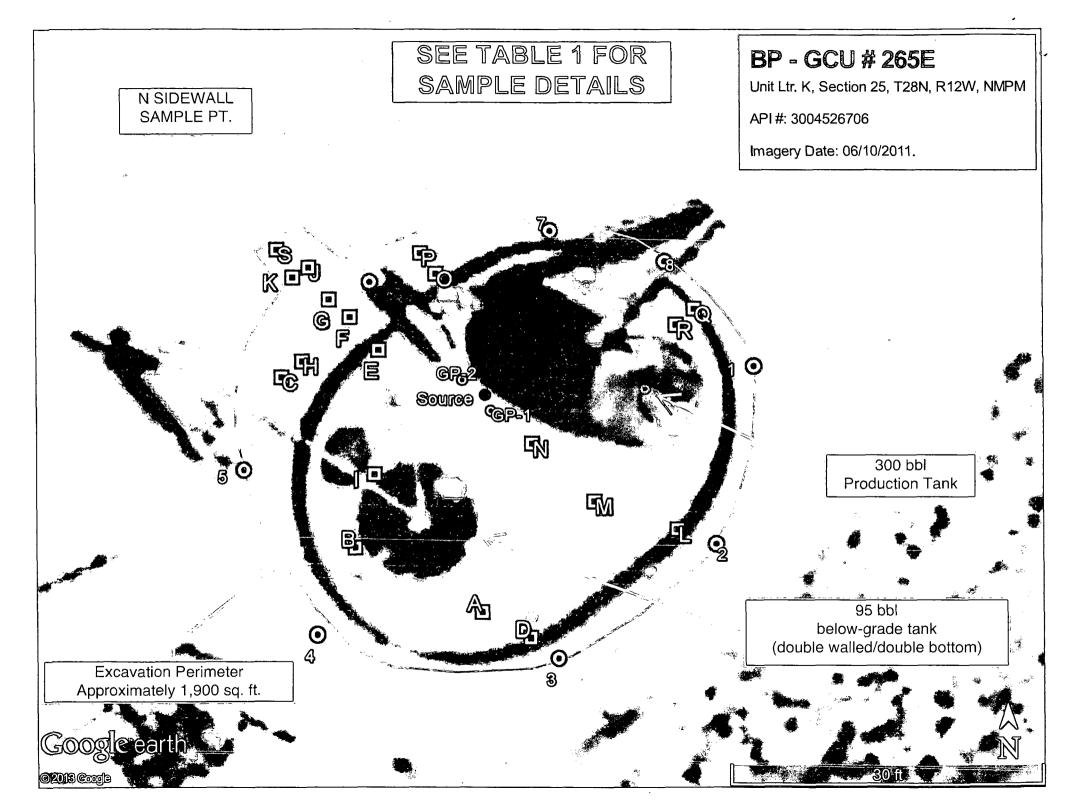
District I 1625 N: French Dr., Hobbs, NM 88240 Nistrict II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

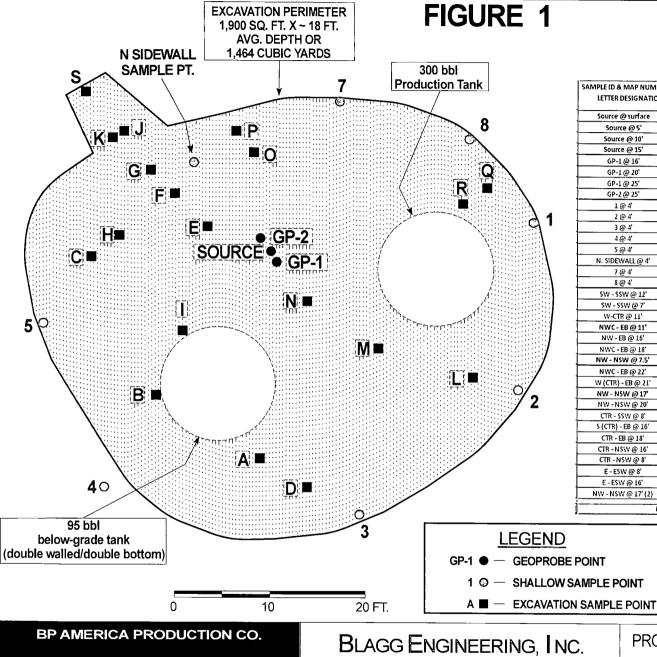
State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

					arrea r	, 1 1111 0 7 0						
			Rele	ease Notific	cation	n and Co	orrective A	ction	1			
						OPERA	ГOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	ompany: B	P				Contact: Jef	f Peace		- 			
		Court, Farm	ington, N	M 87401			No.: 505-326-94	179				
Facility Na						Facility Typ						
Conform On	man DIM			14616				•	ADIN	2004526	706	
Surface Ow	mer. BLM			Mineral (owner:	rederai			API NO	. 30045267	706	
						N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	1	West Line	County: Sa	an Juan	1
K	25	28N	12W	1650	South		1800	West	01	L CONS.	חוע ה	No~ -
····	<u> </u>		<u> </u>	l	<u> </u>			I		~ 001110.	NIA T	4 ST. 3
		La	titude3	36.63046		Longitud	le108.06589_			AUG 2	9 201	14
				NAT	URE	OF RELI	EASE				v 201	ा
Type of Rele	ase: oil						Release: 259 bbl	in the			42 bbl	including 95
Cause of Do	lange					containme		-	bbl from t			0.4.10
Source of Re	iease; prod	uction tank					Iour of Occurrenc 2013 8:45 AM	e:	2013; 11:		covery	: October 9,
Was Immedi	ate Notice (Given?				If YES, To			20.0,	0071117		
		\boxtimes	Yes [] No 🗌 Not R	equired	Brandon P	owell					
By Whom?							Iour October 9, 2					
Was a Water	course Read	ched?	Yes ⊠	1 No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercou						<u> </u>						
After drainin	g the water,	instead of clo	osing the d	n Taken.* On Oct Irain valve, he ope ment area. The v	ened the	valve fully as	nd left the location	n. The	release was	discovered		
center of the soil began. A TPH to deter compacted so	containmer Approximate mine when the produce	at area showed ely 1,464 cub- all impacted s ction equipme	I impacted ic yards of soil had be nt can be p	xen.* All of the re soil to 16 ft belo soil was excavate en removed. Cle- blaced back into s	w the sured and ta an soil w ervice an	rface. Once to the IE was hauled to and the well ca	he production equ I landfarm for tre the location to ba un begin producin	iipment atment. ckfill th g again.	was remov Soil sampl e excavation	ed excavation es were take n. The back	on of the on and a filled s	ne impacted analyzed for soil was
regulations a public health should their of or the environment	II operators or the envioperations hument. In a	are required to ronment. The nave failed to	o report and acceptance acceptanc	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r stance of a C-141	elease nort by the emediate	otifications a e NMOCD m e contaminati	nd perform correc arked as "Final R on that pose a thr	tive act eport" c eat to g	ions for rele loes not reli round water	eases which eve the oper s, surface wa	may er ator of ter, hu	ndanger liability man health
Signature:	Seff	Poses				Approved by	OIL CON		\wedge	DIVISIO TO K	<u>N</u>	
Printed Name	e. Jeil Peac	<u> </u>					ulala v	rf		V W - (C	~ ~	
Title: Field E	invironmen	tal Advisor				Approval Dat	ie: 11/12/801	7	Expiration I	Date:		
		effrey@bp.co				Conditions of	f Approval:			Attached		
Date: Noven	nber 15, 20	13	Pho	ne: 505-326-9479)							





GCU # 265E

NE/4 SW/4 SEC. 25, T28N, R12W

SAN JUAN COUNTY, NEW MEXICO



		1						
SAMPLE ID & MAP NUMBER	OR	SAMPLE DATE	SAMPLE TIME	SAMPLING	FIELD OVM READING	TPH-	Benzene	BTEX -
LETTER DESIGNATION				COLLECTION	(ppm)	cumulative		cumulative
Source @ surface	T	10/11/13	0940	GRAB	365	(ppm)	(ppm)	(ppm)
Source @5'	H	10/11/13	0945	GRAB	728	550		
Source @ 10'	✝	10/11/13	0955	GRAB	266	130	-	-
Source @ 15'	t	10/11/13	1010	GRAB	628	246	- : -	-
GP-1 @ 16	1	10/16/13	1218	GRAB		ND	ND	ND
GP-1 @ 20'	T	10/16/13	1223	GRAB		ND	ND	ND
GP-1 @ 25'		10/16/13	1236	GRAB		ND	ND	ND
GP-2 @ 25'	T	10/16/13	1340	GRAB		ND	ND	ND
1@4	1	10/23/13	0732	GRAB	0,6			
2 @ 4'	2	10/23/13	0733	GRAB	6.9		-	-
3 @ 4'	3	10/23/13	0734	GRAB	0.3		-	· .
4@4'	4	10/23/13	0735	GRAB	1.0	-	-	-
5 @ 4'	5	10/23/13	0736	GRAB	0.0	-	-	-
N. SIDEWALL@ 4"	6	10/23/13	0737	GRAB	14.8	ND	ND	ND
7 @ 4'	7	10/23/13	0738	GRAB	5.4	-	-	-
8 @ 4'	8	10/23/13	0740	GRAB	0.5	-	-	-
SW - SSW @ 12'	Α	10/23/13	1350	GRAB	4.7			
SW - SSW @ 7'	D	10/23/13	1357	GRAB	5.2	ND	ND	ND
W-CTR @ 11'	В	10/23/13	1352	GRAB	5.7	-	-	
NWC - EB@11'	С	10/23/13	1355	GRAB	708			-
NW - EB @ 16'	E	10/23/13	1402	GRAB	2.7			
NWC - EB @ 18'	F	10/23/13	1435	GRAB	0.0	ND	ND	ND
NW - NSW @ 7.5'	G	10/23/13	1440	GRAB	209	- "	-	-
NWC - EB @ 22'	Н	10/25/13	1142	GRAB	12.3	11	ND	ND
W (CTR) - EB @ 21'	-	10/25/13	1144	GRAB	0.0	ND	ND	ND
NW - N5W @ 17'	J	10/25/13	1201	GRAB	356	3,410	ND	1.7
NW - NSW @ 20'	К	10/25/13	1203	GRAB	63.9	3,717	ND	0.15
CTR - SSW @ 8*	ι	10/28/13	1245	GRAB	0.0	ND	ND	ND
S (CTR) - EB @ 16'	М	10/28/13	1249	GRAB	4.5	NO	ND	ND
CTR - EB @ 18'	N	10/28/13	1251	GRAB	2.0	ND	ND	ND
CTR - NSW @ 16'	0	10/28/13	1253	GRAB	1.7	ND	ND	NO.
CTR - NSW @ 8'	Р	10/28/13	1254	GRAB	1.5	ND	ND	ND
E - ESW @ 8'	Q	10/29/13	1248	GRAB	0.0	ND	ND	ND
E - ESW @ 16'	R	10/29/13	1250	GRAB	1.1	עאו	IND	שאו
NW - NSW @ 17' (2)	S	10/29/13	1335	GRAB	46.0	ND	NĐ	ND
NM	OCD	RELEASE CLO	SURE STANDA	RDS (soils) -	100	100	10	50

SAMPLING POINT LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

MAGNETIC DECLINATION USED ~ 10° E.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: REMEDIATION

DRAWN BY: NJV

FILENAME: GCU 265E-SM-1.SKF

REVISED: 11-07-13 NJV

SITE

10/13

BP AMERICA PRODUCTION COMPANY GCU # 265E - (Production Tank Oil Release)

Unit Letter K, Section 25, T28N, R12W - API Number: 30-045-26706

SAMPLE ID & MAP NUMBER	ROR	SAMPLE DATE	SAMPLE TIME	SAMPLING COLLECTION	FIELD OVM READING	TPH - cumulative	Benzene	BTEX - cumulative	Soil Description / Comments
LETTER DESIGNATION		!		COLLECTION	(ppm)	(ppm)	(ppm)	(ppm)	
Source @ surface		10/11/13	0940	GRAB	365		-	-	DYO sand to silty sand, non cohesive, moist to wet, collected with hand shovel
Source @ 5'		10/11/13	0945	GRAB	728	550	-	-	DYO sand to silty sand, non cohesive, moist to wet, collected with hand auger
Source @ 10'		10/11/13	0955	GRAB	266	130	-	-	DYO sand to silty sand, non cohesive, slightly moist to moist, collected with hand auger
Source @ 15'	i	10/11/13	1010	GRAB	628	246	-		DYO sand to silty sand, non cohesive, slightly moist to moist, collected with hand auger
GP-1 @ 16'	7	10/16/13	1218	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-1 @ 20'		10/16/13	1223	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-1 @ 25'		10/16/13	1236	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-2 @ 25'		10/16/13	1340	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
1 @ 4'	1	10/23/13	0732	GRAB	0.6	-	-	-	
2 @ 4'	2	10/23/13	0733	GRAB	6.9	-	-	-	
3 @ 4'	3	10/23/13	0734	GRAB	0.3	-	-	-	All samples: DYO sand to silty sand, non cohesive, slightly moist to moist, collected
4 @ 4'	4	10/23/13	0735	GRAB	1.0	-	-	-	with hand shovel,center of current excavation: 108 ft., S38.5E from well head,
5 @ 4'	5	10/23/13	0736	GRAB	0.0	-	-	_	dimensions: tape measured at 53 ft. X 41 ft. 7 point composite sample submitted to
N. SIDEWALL @ 4'	6	10/23/13	0737	GRAB	14.8	ND	ND	ND	lab; TPH = ND, benzene = ND, total BTEX = ND.
7 @ 4'	7	10/23/13	0738	GRAB	5.4	-	-	-	
8 @ 4'	8	10/23/13	0740	GRAB	0.5	-	-	-	-
SW - SSW @ 12'	Α	10/23/13	1350	GRAB	4.7	ND	ND	N.D.	
SW - SSW @ 7'	D	10/23/13	1357	GRAB	5.2	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
W-CTR @ 11'	В	10/23/13	1352	GRAB	5.7	-	-	-	DYO sand to silty sand, non cohesive, slightly moist
NWC - EB @ 11'	С	10/23/13	1355	GRAB	708	-	_	_	DYO sand to silty sand, non cohesive, very moist, excavatec
NW - EB @ 16'	E	10/23/13	1402	GRAB	2.7	ND	ND	ND	
NWC - EB @ 18'	F	10/23/13	1435	GRAB	0.0	ם או	מא	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 7.5'	G	10/23/13	1440	GRAB	209	-	-	-	DYO sand to silty sand, non cohesive, very moist, excavatec
NWC - EB @ 22'	Н	10/25/13	1142	GRAB	12.3	11	ND	ND	DVO
W (CTR) - EB @ 21'	1	10/25/13	1144	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 17'	J	10/25/13	1201	GRAB	356	3,410	ND	1.7	DYO sand to silty sand, non cohesive, very moist, excavatec
NW - NSW @ 20'	К	10/25/13	1203	GRAB	63.9	3,717	ND	0.15	DYB sand to silty sand, non cohesive, very moist, excavatec
CTR - SSW @ 8'	L	10/28/13	1245	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
S (CTR) - EB @ 16'	М	10/28/13	1249	GRAB	4.5	ND	ND	ND	
CTR - EB @ 18'	N	10/28/13	1251	GRAB	2.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
CTR - NSW @ 16'	0	10/28/13	1253	GRAB	1.7	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
CTR - NSW @ 8'	Р	10/28/13	1254	GRAB	1.5	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
E - ESW @ 8'	Q	10/29/13	1248	GRAB	0.0	ND	ND	ND	DVO and to tile and an about a distallancia 2 to 1
E - ESW @ 16'	R	10/29/13	1250	GRAB	1.1	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 17' (2)	S	10/29/13	1335	GRAB	46.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
			LOSURE STAND		100	100	10	50	

Notes:

OVM -Organic vapor meter or photo-ionization detector (PID)

TPH -Total petroleum hydrocarbons by US EPA Method 8015B

BTEX -Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B

DYO -Dark yellowish orange ppm - Parts per million or milligram per kilogram (mg/Kg).

ND - Not detected at Reporting Limit. NMOCD - New Mexico Oil Conservation Division.

DYB - Dark yellowish brown

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA

DATE	TIME	READING
10/11/13	1015	99.4
10/23/13	0805	99.4

DATE	TIME	READING		
10/25/13	1154	52.4		
10/28/13	1306	52.3		

DATE	TIME	READING
10/29/13	1340	99.5

BP AMERICA PRODUCTION COMPANY

GCU # 265E - (Production Tank Oil Release)

Unit Letter K, Section 25, T28N, R12W - API Number: 30-045-26706

SAMPLE ID & MAP NUMBER	ROR	SAMPLE DATE	SAMPLE TIME	SAMPLING	FIELD OVM	ТРН -	Benzene	BTEX -	Soil Description / Comments
LETTER DESIGNATION			[COLLECTION	READING	cumulative		cumulative	
- Company		10/11/13	0940	GRAB	(ppm) 365	(ppm)	(ppm)	(ppm)	
Source @ surface	-						-	-	DYO sand to silty sand, non cohesive, moist to wet, collected with hand shovel
Source @ 5'	_	10/11/13	0945	GRAB	728	550		· · ·	DYO sand to silty sand, non cohesive, moist to wet, collected with hand auger
Source @ 10'	_	10/11/13	0955	GRAB	266	130	-	-	DYO sand to silty sand, non cohesive, slightly moist to moist, collected with hand auger
Source @ 15'	4	10/11/13	1010	GRAB	628	246		-	DYO sand to silty sand, non cohesive, slightly moist to moist, collected with hand auger
GP-1 @ 16'		10/16/13	1218	GRAB		ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-1 @ 20'		10/16/13	1223	GRAB		ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-1 @ 25'		10/16/13	1236	GRAB	·	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
GP-2 @ 25'		10/16/13	1340	GRAB		ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist
1 @ 4'	1	10/23/13	0732	GRAB	0.6	-	-	-	
2 @ 4'	2	10/23/13	0733	GRAB	6.9	-	-	-	
3 @ 4'	3	10/23/13	0734	GRAB	0.3	-	-	-	All samples: DYO sand to silty sand, non cohesive, slightly moist to moist, collected
4 @ 4'	4	10/23/13	0735	GRAB	1.0	-	-	-	with hand shovel,center of current excavation: 108 ft., S38.5E from well head,
5 @ 4'	5	10/23/13	0736	GRAB	0.0	-			dimensions: tape measured at 53 ft. X 41 ft. 7 point composite sample submitted t
N. SIDEWALL @ 4'	6	10/23/13	0737	GRAB	14.8	ND	ND	ND	lab; TPH = ND, benzene = ND, total BTEX = ND.
7 @ 4'	7	10/23/13	0738	GRAB	5.4	-	-	-	
8 @ 4'	8	10/23/13	0740	GRAB	0.5		-	-	
SW - SSW @ 12'	A	10/23/13	1350	GRAB	4.7	ND	ND	ND	DVO and to situate the second
SW - SSW @ 7'	D	10/23/13	1357	GRAB	5.2	ן או	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
W-CTR @ 11'	В	10/23/13	1352	GRAB	5.7	-	-	-	DYO sand to silty sand, non cohesive, slightly moist
NWC - EB @ 11'	С	10/23/13	1355	GRAB	708			-	DYO sand to silty sand, non cohesive, very moist, excavatec
NW - EB @ 16'	E	10/23/13	1402	GRAB	2.7	ND.	ND	110	DVO and the aller and the last of the last
NWC - EB @ 18'	F	10/23/13	1435	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 7.5'	G	10/23/13	1440	GRAB	209	-	-	-	DYO sand to silty sand, non cohesive, very moist, excavatec
NWC - EB @ 22'	Н	10/25/13	1142	GRAB	12.3	11	ND	ND	DVO and the effect of the second of the effect of the second of the effect of the second of the seco
W (CTR) - EB @ 21'	ī	10/25/13	1144	GRAB	0.0	ND	ND	ND	DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 17'	J	10/25/13	1201	GRAB	356	3,410	ND	1.7	DYO sand to silty sand, non cohesive, very moist, excavatec
NW - NSW @ 20'	К	10/25/13	1203	GRAB	63.9	3,717	ND	0.15	DYB sand to silty sand, non cohesive, very moist, excavatec
CTR - SSW @ 8'	L	10/28/13	1245	GRAB	0.0				DYO sand to silty sand, non cohesive, slightly moist
S (CTR) - EB @ 16'	M	10/28/13	1249	GRAB	4.5				
CTR - EB @ 18'	N	10/28/13	1251	GRAB	2.0	1			DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
CTR - NSW @ 16'	0	10/28/13	1253	GRAB	1.7				DYO sand to silty sand, non cohesive, slightly moist
CTR - NSW @ 8'	Р	10/28/13	1254	GRAB	1.5	<u> </u>			DYO sand to silty sand, non cohesive, slightly moist
E - ESW @ 8'	Q	10/29/13	1248	GRAB	0.0				DVO conditional to silturated management aliabety maint 2 nt access to 1-1-1-1-1-1-1
E - ESW @ 16'	R	10/29/13	1250	GRAB	1.1			[DYO sand to silty sand, non cohesive, slightly moist, 2 pt. composite lab sample
NW - NSW @ 17' (2)	S	10/29/13	1335	GRAB	46.0				DYO sand to silty sand, non cohesive, slightly moist
		_		ARDS (soils) -	100	100	10	50	

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID)

TPH Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B

DYO - Dark yellowish orange

ppm - Parts per million or milligram per kilogram (mg/Kg).

ND - Not detected at Reporting Limit.

NMOCD - New Mexico Oil Conservation Division.

DYB - Dark yellowish brown

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA

DATE	TIME	READING
10/11/13	1015	99.4
10/23/13	0805	99.4

DATE	TIME	READING
10/25/13	1154	52.4
10/28/13	1306	52.3

DATE	TIME	READING
10/29/13	1340	99.5

Lab Order 1310620

Date Reported: 10/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Source @ -5'

Project: GCU 265E

Collection Date: 10/11/2013 9:45:00 AM

Lab ID: 1310620-001

Matrix: SOIL

Received Date: 10/12/2013 10:15:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS					Analys	t: BCN
Diesel Range Organics (DRO)	500	9.9		mg/Kg	1	10/15/2013 2:19:31 PM	1 9801
Motor Oil Range Organics (MRO)	210	50		mg/Kg	1	10/15/2013 2:19:31 PM	1 9801
Surr: DNOP	107	63-147		%REC	1	10/15/2013 2:19:31 PM	9801
EPA METHOD 8015D: GASOLINE R.	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	50	25		mg/Kg	5	10/15/2013 3:13:54 PN	1 9793
Surr: BFB	155	74.5-129	S	%REC	5	10/15/2013 3:13:54 PM	1 9793
EPA METHOD 418.1: TPH						Analys [,]	t: BCN
Petroleum Hydrocarbons, TR	950	20		mg/Kg	1	10/14/2013	9799

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

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- .] Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 8
- P Sample pH greater than 2 for VOA and TOC only
- RL Reporting Detection Limit

Lab Order 1310620

Date Reported: 10/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: GCU 265E

1310620-002 Lab ID:

Client Sample ID: Source @ -10'

Collection Date: 10/11/2013 9:55:00 AM

Received Date: 10/12/2013 10:15:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: BCN
Diesel Range Organics (DRO)	130	10	mg/Kg	1	10/15/2013 3:30:58 P	M 9801
Motor Oil Range Organics (MRO)	140	50	mg/Kg	1	10/15/2013 3:30:58 P	M 9801
Surr: DNOP	98.9	63-147	%REC	1	10/15/2013 3:30:58 P	M 9801
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2013 4:11:01 P	M 9793
Surr: BFB	108	74.5-129	%REC	1	10/15/2013 4:11:01 P	M 9793
EPA METHOD 418.1: TPH					Analys	st: BCN
Petroleum Hydrocarbons, TR	310	20	mg/Kg	1	10/14/2013	9799

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 8

- P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Lab Order 1310620

Date Reported: 10/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: GCU 265E

Lab ID:

1310620-003

Matrix: SOIL

Client Sample ID: Source @ -15'

Collection Date: 10/11/2013 10:10:00 AM **Received Date:** 10/12/2013 10:15:00 AM

Analyses	Result	RL (Qual Uni	its	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS	-				Analyst:	BCN
Diesel Range Organics (DRO)	230	10	mg	/Kg	1	10/15/2013 3:53:04 PM	9801
Motor Oil Range Organics (MRO)	130	50	mg	/Kg	1	10/15/2013 3:53:04 PM	9801
Surr: DNOP	99.8	63-147	%R	REC	1	10/15/2013 3:53:04 PM	9801
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	16	4.9	mg	/Kg	1	10/15/2013 4:39:31 PM	9793
Surr: BFB	215	74.5-129	S %R	REC	1	10/15/2013 4:39:31 PM	9793
EPA METHOD 418.1: TPH						Analyst:	BCN
Petroleum Hydrocarbons, TR	500	20	mg	/Kg	1	10/14/2013	9799

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 3 of 8
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

110

20

100.0

WO#:

1310620

16-Oct-13

Client:

Blagg Engineering

Petroleum Hydrocarbons, TR

Project:	GCU 265	E 						-			
Sample ID I	VIB-9799	SampType	e: ME	BLK	Tes	tCode: E	PA Method	418.1: TPH			
Client ID: F	PBS	Batch ID): 97	99	F	RunNo: 1	4050				
Prep Date:	10/14/2013	Analysis Date	: 10	0/14/2013	\$	SeqNo: 4	01983	Units: mg/k	(g		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydro	carbons, TR	ND	20								
Sample ID L	_CS-9799	SampType	e: LC	s	Tes	tCode: E	PA Method	418.1: TPH			
Client ID: L	css	Batch ID	: 979	99	F	RunNo: 1	4050				
Prep Date:	10/14/2013	Analysis Date	: 10)/14/2013	5	SeqNo: 4	01984	Units: mg/F	(g		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Petroleum Hydro	carbons, TR	110	20	100.0	0	112	80	120			
Sample ID L	.CSD-9799	SampType	: LC	SD	Tes	tCode: E	PA Method	418.1: TPH			
Client ID: L	CSS02	Batch ID	: 979	99	F	RunNo: 1	4050				
Prep Date:	10/14/2013	Analysis Date	: 10	/14/2013	S	SeqNo: 4	01985	Units: mg/k	(g		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

108

80

120

3.68

20

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1310620

16-Oct-13

Client:

Blagg Engineering

Project:	GCU 265	5E 									
Sample ID	MB-9822	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	n ID: 98	22	F	RunNo: 1	4066				
Prep Date:	10/15/2013	Analysis D	ate: 1	0/15/2013	S	SeqNo: 4	02767	Units: %RE	:C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.6		10.00		96.4	63	147			
Sample ID	LCS-9822	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	<u>:</u>
Client ID:	LCSS	Batch	ı ID: 98	22	F	RunNo: 1	4066				
Prep Date:	10/15/2013	Analysis D	ate: 1	0/15/2013	9	SeqNo: 4	02894	Units: %RE	:C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.0		5.000	-	100	63	147		-	-
Sample ID	LCS-9801	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics	
Client ID:	LCSS	Batch	ID: 98	01	F	RunNo: 1	4066				
Prep Date:	10/14/2013	Analysis D	ate: 1	0/15/2013	5	SeqNo: 4	03125	Units: mg/k	⟨ g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	10	50.00	0	98.3	77.1	128			
Surr: DNOP		5.0		5.000		99.2	63	147			
Sample ID	MB-9801	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Sample ID Client ID:			ype: Mi i ID: 98			tCode: El RunNo: 1		8015D: Dies	el Range (Organics	
Client ID:			1D: 98	01	F		4066	8015D: Dies		Organics	
Client ID:	PBS	Batch	1D: 98	01 0/15/2013	F	RunNo: 1 SeqNo: 4	4066 03236			Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (PBS 10/14/2013 Organics (DRO)	Batch Analysis D Result ND	ate: 10 PQL	01 0/15/2013	F	RunNo: 1 SeqNo: 4	4066 03236	Units: mg/h	(g		Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang	PBS 10/14/2013	Batch Analysis D Result ND ND	n ID: 98 ate: 1 0	01 0/15/2013 SPK value	F	RunNo: 1. SeqNo: 4 %REC	4066 03236 LowLimit	Units: mg/f HighLimit	(g		Qual
Client ID: Prep Date: Analyte Diesel Range (PBS 10/14/2013 Organics (DRO)	Batch Analysis D Result ND	ate: 10 PQL	01 0/15/2013	F	RunNo: 1 SeqNo: 4	4066 03236	Units: mg/h	(g		Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP	PBS 10/14/2013 Organics (DRO) the Organics (MRO)	Batch Analysis D Result ND ND 10 SampT	PQL 10 50 50 MS	01 0/15/2013 SPK value 10.00	SPK Ref Val	RunNo: 1- GeqNo: 4 %REC 101 tCode: EF	4066 03236 LowLimit 63	Units: mg/f HighLimit	(g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID:	PBS 10/14/2013 Organics (DRO) te Organics (MRO) 1310620-001AMS Source @ -5'	Batch Analysis D Result ND ND 10 SampT Batch	PQL101010101010101010101010	01 0/15/2013 SPK value 10.00	SPK Ref Val Tes	RunNo: 1- SeqNo: 4 %REC 101 tCode: El	4066 03236 LowLimit 63 PA Method 4066	Units: mg/F HighLimit 147 8015D: Diese	(g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID:	PBS 10/14/2013 Organics (DRO) the Organics (MRO)	Batch Analysis D Result ND ND 10 SampT	PQL101010101010101010101010	01 0/15/2013 SPK value 10.00	SPK Ref Val Tes	RunNo: 1- GeqNo: 4 %REC 101 tCode: EF	4066 03236 LowLimit 63 PA Method 4066	Units: mg// HighLimit	(g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 10/14/2013 Organics (DRO) the Organics (MRO) 1310620-001AMS Source @ -5' 10/14/2013	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value	SPK Ref Val Tes F SPK Ref Val	RunNo: 1- SeqNo: 4 %REC 101 tCode: ER RunNo: 1- SeqNo: 4-6 %REC	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit	(g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (PBS 10/14/2013 Organics (DRO) te Organics (MRO) 1310620-001AMS Source @ -5'	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result 590	PQL 10 50 10: 98 ate: 10 10: 98 ate: 10: 98 ate: 10: 98 ate: 10: 98	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value 49.55	SPK Ref Val Tes	RunNo: 1- SeqNo: 4 %REC 101 tCode: El RunNo: 1- SeqNo: 4- %REC 188	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit 61.3	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit 138	(g %RPD el Range (RPDLimit Organics	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 10/14/2013 Organics (DRO) the Organics (MRO) 1310620-001AMS Source @ -5' 10/14/2013	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value	SPK Ref Val Tes: F SPK Ref Val	RunNo: 1- SeqNo: 4 %REC 101 tCode: ER RunNo: 1- SeqNo: 4-6 %REC	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit	(g %RPD el Range (RPDLimit Organics	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	PBS 10/14/2013 Organics (DRO) the Organics (MRO) 1310620-001AMS Source @ -5' 10/14/2013	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result 590 5.7	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value 49.55 4.955	Tes SPK Ref Val 499.7	RunNo: 1- SeqNo: 4 %REC 101 tCode: Ele RunNo: 1- SeqNo: 4- %REC 188 115	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit 61.3 63	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit 138	(g %RPD el Range ((g %RPD	RPDLimit Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	PBS 10/14/2013 Organics (DRO) te Organics (MRO) 1310620-001AMS Source @ -5' 10/14/2013 Organics (DRO)	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result 590 5.7 D SampT	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value 49.55 4.955	Tes: SPK Ref Val 499.7	RunNo: 1- SeqNo: 4 %REC 101 tCode: Ele RunNo: 1- SeqNo: 4- %REC 188 115	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit 61.3 63 PA Method	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit 138 147 8015D: Diese	%RPD el Range C %RPD el Range C	RPDLimit Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID	PBS 10/14/2013 Organics (DRO) 1310620-001AMS Source @ -5' 10/14/2013 Organics (DRO)	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result 590 5.7 D SampT	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value 49.55 4.955	Tess SPK Ref Val 499.7 Tess	RunNo: 1- SeqNo: 4 **REC 101 **Code: EF **REC 188 115	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit 61.3 63 PA Method 4066	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit 138 147	%RPD el Range C %RPD el Range C	RPDLimit Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Client ID: Prep Date: Analyte	PBS 10/14/2013 Drganics (DRO) Drganics (MRO) 1310620-001AMS Source @ -5' 10/14/2013 Drganics (DRO) 1310620-001AMSI Source @ -5'	Batch Analysis D Result ND ND 10 SampT Batch Analysis D Result 590 5.7 D SampT Batch	PQL 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	01 0/15/2013 SPK value 10.00 6 01 0/15/2013 SPK value 49.55 4.955 6D 01 0/15/2013	Tess SPK Ref Val 499.7 Tess	RunNo: 1- SeqNo: 4 %REC 101 tCode: ER RunNo: 1- SeqNo: 40 %REC 188 115 tCode: ER	4066 03236 LowLimit 63 PA Method 4066 03238 LowLimit 61.3 63 PA Method 4066	Units: mg/F HighLimit 147 8015D: Diese Units: mg/F HighLimit 138 147 8015D: Diese	%RPD el Range C %RPD el Range C	RPDLimit Organics RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1310620 16-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID 1310620-001AMSD

SampType: MSD

TestCode: EPA Method 8015D: Diesel Range Organics

Source @ -5' Client ID:

Batch ID: 9801

RunNo: 14066

%REC

Prep Date: 10/14/2013

Analysis Date: 10/15/2013

SeqNo: 403262

Analyte

Result

PQL SPK value SPK Ref Val

Units: mg/Kg

HighLimit

%RPD **RPDLimit** Qual

Surr: DNOP

5.7

4.950

116

63

LowLimit

147

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310620

16-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-9793 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Prep Date: 1013/2013 Analysis Date: 10141/2013 SeqNo: 402644 Units: mg/Kg Analysis Date: 10141/2013 SeqNo: 402645 Units: mg/Kg RPD RPDLimit Qual Gasoline Range Organics (GRC) Since Page Organics											
Prep Date: 10/13/2013	Sample ID MB-9793	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range							
Analyte	Client ID: PBS	Batch ID: 9793	RunNo: 14068								
Sample ID LCS-9793 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 9793 RunNo: 14068 RunNo	Prep Date: 10/13/2013	Analysis Date: 10/14/2013	SeqNo: 402644	Units: mg/Kg							
Sample D LCS-9793 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range SampType: LCS TestCode: EPA Method 8015D: Gasoline Range SampType: LCS RunNo: 14068 SeqNo: 402645 Units: mg/Kg Malysis Date: 10/14/2013 SeqNo: 402645 Units: mg/Kg Malysis Malysis Date: 10/14/2013 SeqNo: 402645 Units: mg/Kg Malysis Malysi			SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Sample D LCS-9793 SampType: LCS	0 0 , ,		22.5	400							
Client ID: LCSS	Sull: RFR	860 1000	86.2 /4.5	129 							
Prep Date: 10/13/2013 Analysis Date: 10/14/2013 SeqNo: 402645 Units: mg/Kg	Sample ID LCS-9793	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range							
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 74.5 126 Surr: BFB 940 1000 93.7 74.5 129 Sample ID MB-9793 MK Sampl* ID: R14068 RunNo: 14068	Client ID: LCSS	Batch ID: 9793	RunNo: 14068								
Sample Date	Prep Date: 10/13/2013	Analysis Date: 10/14/2013	SeqNo: 402645	Units: mg/Kg							
Sample D MB-9811 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Fep Date: Analysis Date: 10/14/2013 SeqNo: 402649 Units: %REC Client D: Gasoline Range Fep Date: Analysis Date: 10/14/2013 SeqNo: 402649 Units: %REC CowLimit HighLimit MRPD RPDLimit Qual MRPD RPDLimit Qual MRPD RPDLimit Qual MRPD RPDLimit MRPD RPDLimi	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Sample ID MB-9793 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: R14068 RunNo: 14068 RunNo: 14068 RunNo: 14068 Recovered PREC LowLimit HighLimit %REC PRDLimit Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID LCS-9793 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14068 RunNo: 14068 RunNo: 14											
Client ID: PBS	Surr: BFB	940 1000	93.7 74.5	129							
Prep Date: Analysis Date: 10/14/2013 SeqNo: 402649 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr. BFB 860 1000 86.2 74.5 129 TestCode: EPA Method 801 bit 801 bit 901 bit	Sample ID MB-9793 MK	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr. BFB 860 1000 86.2 74.5 129 .	Client ID: PBS	Batch ID: R14068	RunNo: 14068								
Surr. BFB 860 1000 86.2 74.5 129 Sample ID LCS-9793 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14068 RunNo: 14068 Prep Date: Analysis Date: 10/14/2013 SeqNo: 402650 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit MighLimit	Prep Date:	Analysis Date: 10/14/2013	SeqNo: 402649	Units: %REC							
Sample ID LCS-9793 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14068 RunNo: 14068 Prep Date: Analysis Date: 10/14/2013 SeqNo: 402650 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID MB-9811 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403460 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 870 1000 87.5 74.5 129 TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-9811 MK SampType: LCS TestCode: EPA Method 801	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Client ID: LCSS Batch ID: R14068 RunNo: 14068 Prep Date: Analysis Date: 10/14/2013 SeqNo: 402650 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 940 1000 93.7 74.5 129 V PRDLimit Qual Sample ID MB-9811 MK Samp*** Samp*** Samp*** MBLK TestCode: EPA Method 8015D: Gasoline Range** Client ID: PBS Batch ID: R14079 RunNo: 14079 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sample ID LCS-9811 MK Samp**** Samp*** SeqNo: 403461 Units: %REC Client ID: LCSS Batch ID: R14079 RunNo: 14079 RunNo: 14079	Surr: BFB	860 1000	86.2 74.5	129							
Prep Date: Analysis Date: 10/14/2013 SeqNo: 402650 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 940 1000 93.7 74.5 129 ————————————————————————————————————	Sample ID LCS-9793 MK	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range							
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 940 1000 93.7 74.5 129	Client ID: LCSS	Batch ID: R14068	RunNo: 14068								
Surr: BFB 940 1000 93.7 74.5 129 Sample ID MB-9811 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403460 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 870 1000 87.5 74.5 129 Sample ID LCS-9811 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date:	Analysis Date: 10/14/2013	SeqNo: 402650	Units: %REC							
Sample ID MB-9811 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403460 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 870 1000 87.5 74.5 129 Sample ID LCS-9811 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Client ID: PBS Batch D: R14079 RunNo: 14079	Surr: BFB	940 1000	93.7 74.5	129							
Prep Date: Analysis Date: 10/15/2013 SeqNo: 403460 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 870 1000 87.5 74.5 129 TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID MB-9811 MK	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range							
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 870 1000 87.5 74.5 129	Client ID: PBS	Batch ID: R14079	RunNo: 14079								
Surr: BFB 870 1000 87.5 74.5 129 Sample ID LCS-9811 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date:	Analysis Date: 10/15/2013	SeqNo: 403460	Units: %REC							
Sample ID LCS-9811 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Client ID: LCSS Batch ID: R14079 RunNo: 14079 Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Surr: BFB	870 1000	87.5 74.5	129							
Prep Date: Analysis Date: 10/15/2013 SeqNo: 403461 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Sample ID LCS-9811 MK	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range							
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Client ID: LCSS	Batch ID: R14079	RunNo: 14079								
J. Control of the con	Prep Date:	Analysis Date: 10/15/2013	SeqNo: 403461	Units: %REC							
Surr RER 980 1000 98.4 74.5 129	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Out. 10 300 1000 30.7 17.0 120	Surr: BFB	980 1000	98.4 74.5	129							

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310620

16-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-9811

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 9811

RunNo: 14079

Prep Date: 10/14/2013 Analysis Date: 10/15/2013

SeqNo: 403465

Units: %REC

129

Analyte

870

SPK value SPK Ref Val

Surr: BFB

1000

%REC LowLimit 87.5

HighLimit

RPDLimit Qual

Sample ID LCS-9811

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 9811

RunNo: 14079

Prep Date: 10/14/2013 Analysis Date: 10/15/2013

SeqNo: 403466

Units: %REC

LowLimit HighLimit Qual

Analyte

1000

%REC 98.4

74.5

Surr: BFB

Result 980

SPK value SPK Ref Val

74.5

129

%RPD

%RPD

RPDLimit

Qualifiers:

Е

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits 0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Value above quantitation range

В Analyte detected in the associated Method Blank Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 8 of 8

Sample pH greater than 2 for VOA and TOC only.



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 Num	ber: 131062	0		RcptNo:	1
Received by/date:	T 10/12/13					
Logged By: Anne Thorne	10/12/2013 10:15:0	00 AM	Anne	Am		
Completed By: Anne Thome	10/12/2013		Am.	H- H-	_	
Reviewed By:	112/13		C/#/W	<i></i>		
Chain of Custody			-			
Custody seals intact on sample bot	tles?	Yes [☐ No		Not Present	
2. Is Chain of Custody complete?		Yes [Z No	, 	Not Present	
3. How was the sample delivered?		Courie	Ţ			
<u>Log In</u>		•				
4. Was an attempt made to cool the s	samples?	Yes	✓ No	o 🗆	na 🗆	
5. Were all samples received at a terr	perature of >0° C to 6.0°C	Yes 🖸	Ž No		NA 🗆	
6. Sample(s) in proper container(s)?		Yes	✓ No			
7. Sufficient sample volume for indica	ted test(s)?	Yes 5	Z No			
8. Are samples (except VOA and ONG	6) properly preserved?	Yes	Z No			
9. Was preservative added to bottles?		Yes [] No	V	NA 🗆	
10.VOA vials have zero headspace?		Yes [] No		No VOA Vials	
11. Were any sample containers received	ved broken?	Yes [□ No	V	# of preserved	
12. Does paperwork match bottle labels (Note discrepancies on chain of cus		Yes	Z No	· 🗆	for pH:	r >12 unless noted)
13. Are matrices correctly identified on		Yes [Z No		Adjusted?	
14. Is it clear what analyses were reque		Yes 6	Z No	, 		
15. Were all holding times able to be m (If no, notify customer for authoriza		Yes (∠ No	· 🗆	Checked by:	
Special Handling (if applicable	-	_	_			
16. Was client notified of all discrepand	ies with this order?	Yes [No	• 🗆	NA 🗹	٦
Person Notified: By Whom:	Date Via:		Phone] Fax	☐ In Person	
Regarding: Client Instructions:	Mandan mount of Harding and the Company of the Comp	. Care a la companya de la companya				
17. Additional remarks:			<u> </u>	*** *		J
18. Cooler Information Cooler No Temp °C Condi	tion Seal Intact Seal No	Seal Dat	e Signed	Ву		

C	hain-	of-Cu	stody Record	Turn-Around	Time:	SAME MOLDAY	DAY 10/14/2013					e a			Riz	ft e	·			AIT	ΓAL	
Client:	3LAGG	ENGU	JERNA INC.	☐ Standard	⋉Rush	By FRI.	0/14/2013 10/18/2013 0×8015B			200											OR'	
Mailing	SPA Address:	MERIC P.O.	A Box 87	-	U Z65		. -		- 491	 01 Н	awki		v.hal NE -						'109			
_	_		NM 87413	Project #:					Τe	l. 50	5-34	5-39	975	F	ax	505-	345	 -410	7			
Phone #	#: S c	5- 63	32-1199				· · · · ·	er jest direk					Ā	nály	/sis	Req	ues			3.	A STATE OF	A.
email or	Fax#:			Project Mana	ger:			7	Ę.		(8)				04)	ľ				1		
QA/QC F	-		☐ Level 4 (Full Validation)	J.	BLALL			's (8021)	TPH (Gas c		9		SIMS)		,PO4,S	PCB'						
Accredi			•	Sampler: 3	T. BLAGG			TMB'	핕	(GRO / DRO	£	€	302		NO2	808						ź
□ NEL		□ Otne	er		X (Yes ∹			+	+	8	418	504	r 82	ည	Ō,	/ 86		8			Ì	Č
□ EDD	(Type)_			Samplestieni	perature 2			MTBE	MTBE	9	po	рg	10 0	/leta	5	icid	JA)	-iu			l	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	, HE	TENO.	EX +	BTEX + N	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Ruhhla
19/11/2013	0945	Soil	Source @ 5	4 03 21	Cecc		-cic(X		_	_				-				+
1(0955	ч	Source e-10	ч	ч		WZ			×	×											
1(1010	ŧę	Sarce e-15'	u	L(7003			У	×											\top
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Date: 10/i1/2013	Time: 1355	Relinquish	ed by: Blegg	Received by:	ne Walk	10/11/2013	Time 1355	Ren	narks	3:	Bi	u	B	460	•							
Date: 6/11/13	Time:	Relinquish	ed by:	Received by:	J,	Date 10 2 1	Time				70		ı		<u> </u>			>				
	<u> </u>	amples sub	mitted to Hall Environmental may be subc	contracted to other ac	ccredited laboratorie	s. This serve	s as notice of this	possit	oility.	Any su								E A		al repo		

Lab Order 1310843

Date Reported: 10/21/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-1@16'

Project: GCU 265E

Collection Date: 10/16/2013 12:18:00 PM

Lab ID: 1310843-001

Matrix: MEOH (SOIL)

Received Date: 10/17/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed B	Batch
EPA METHOD 8015D: DIESEL RANGE	E ORGANICS			Analyst: B	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 10/17/2013 12:33:22 PM 9	9886
Surr: DNOP	103	63-147	%REC	1 10/17/2013 12:33:22 PM 9	9886
EPA METHOD 8015D: GASOLINE RAI	NGE			Analyst: N	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 10/17/2013 1:21:19 PM R	R14160
Surr: BFB	84.8	74.5-129	%REC	1 10/17/2013 1:21:19 PM R	R14160
EPA METHOD 8021B: VOLATILES				Analyst: N	NSB
Benzene	ND	0.050	mg/Kg	1 10/17/2013 1:21:19 PM R	R14160
Toluene	ND	0.050	mg/Kg	1 10/17/2013 1:21:19 PM R	R14160
Ethylbenzene	ND	0.050	mg/Kg	1 10/17/2013 1:21:19 PM R	R14160
Xylenes, Total	ND	0.10	mg/Kg	1 10/17/2013 1:21:19 PM R	R14160
Surr: 4-Bromofluorobenzene	97.1	80-120	%REC	1 10/17/2013 1:21:19 PM R	R14160
EPA METHOD 300.0: ANIONS				Analyst: J	IRR
Chloride	ND	1.5	mg/Kg	1 10/17/2013 3:01:28 PM 9	888

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 8
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1310843

Date Reported: 10/21/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-1@20'

GCU 265E Project:

Collection Date: 10/16/2013 12:23:00 PM

1310843-002 Lab ID:

Matrix: MEOH (SOIL) Received Date: 10/17/2013 9:50:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/17/2013 1:17:27 PM	9886
Surr: DNOP	106	63-147	%REC	1	10/17/2013 1:17:27 PM	9886
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2013 1:49:59 PM	R14160
Surr: BFB	77.6	74.5-129	%REC	1	10/17/2013 1:49:59 PM	R14160
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	10/17/2013 1:49:59 PM	R14160
Toluene	ND	0.050	mg/Kg	1	10/17/2013 1:49:59 PM	R14160
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2013 1:49:59 PM	R14160
Xylenes, Total	ND	0.10	mg/Kg	1	10/17/2013 1:49:59 PM	R14160
Surr: 4-Bromofluorobenzene	85.1	80-120	%REC	1	10/17/2013 1:49:59 PM	R14160
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	1.5	mg/Kg	1	10/17/2013 3:26:17 PM	9888

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

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDImit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 2 of 8 P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Lab Order 1310843

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/21/2013

CLIENT: Blagg Engineering Client Sample ID: GP-1@25'

 Project:
 GCU 265E
 Collection Date: 10/16/2013 12:36:00 PM

 Lab ID:
 1310843-003
 Matrix: MEOH (SOIL)
 Received Date: 10/17/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF Date	Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 10/13	7/2013 1:39:32 PM	9886
Surr: DNOP	105	63-147	%REC	1 10/17	7/2013 1:39:32 PM	9886
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 10/17	7/2013 2:18:36 PM	R14160
Surr: BFB	79.7	74.5-129	%REC	1 10/17	7/2013 2:18:36 PM	R14160
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1 10/17	7/2013 2:18:36 PM	R14160
Toluene	ND	0.050	mg/Kg	1 10/17	7/2013 2:18:36 PM	R14160
Ethylbenzene	ND	0.050	mg/Kg	1 10/17	7/2013 2:18:36 PM	R14160
Xylenes, Total	ND	0.10	mg/Kg	1 10/17	7/2013 2:18:36 PM	R14160
Surr: 4-Bromofluorobenzene	89.3	80-120	%REC	1 10/17	7/2013 2:18:36 PM	R14160
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	7.5	mg/Kg	5 10/17	7/2013 3:51:06 PM	9888

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 8

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1310843

Date Reported: 10/21/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-2@25'

Project: GCU 265E

Collection Date: 10/16/2013 1:40:00 PM

Lab ID: 1310843-004

Matrix: MEOH (SOIL) Received Date: 10/17/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/17/2013 2:01:30 PM	1 9886
Surr: DNOP	107	63-147	%REC	1	10/17/2013 2:01:30 PM	1 9886
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2013 2:47:14 PM	1 R14160
Surr: BFB	75.8	74.5-129	%REC	1	10/17/2013 2:47:14 PM	R14160
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.050	mg/Kg	1	10/17/2013 2:47:14 PM	1 R14160
Toluene	ND	0.050	mg/Kg	1	10/17/2013 2:47:14 PM	1 R14160
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2013 2:47:14 PM	1 R14160
Xylenes, Total	ND	0.10	mg/Kg	1	10/17/2013 2:47:14 PM	1 R14160
Surr: 4-Bromofluorobenzene	83.1	80-120	%REC	1	10/17/2013 2:47:14 PM	R14160
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	1.5	mg/Kg	1	10/17/2013 4:40:45 PM	9888

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 8
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310843

21-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-9888

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 9888

RunNo: 14185

Prep Date: 10/17/2013

Analysis Date: 10/17/2013

1.5

SeqNo: 406219

Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-9888 Client ID: LCSS Prep Date: 10/17/2013

Batch ID: 9888

RunNo: 14185

Analysis Date: 10/17/2013

SeqNo: 406220

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Chloride

Result

SPK value SPK Ref Val %REC LowLimit

110

HighLimit 14 1.5 15.00 0 93.5

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 10/17/2013

WO#:

1310843

21-Oct-13

Client:

Blagg Engineering

Project:

Prep Date: 10/17/2013

GCU 265E

Sample ID MB-9886	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	Method 8015D: Diesel Range Organics							
Client ID: PBS	Batcl	h ID: 98	86	F	RunNo: 1	4149								
Prep Date: 10/17/2013	Analysis [Date: 10	0/17/2013	S	SeqNo: 405466 Units: mg/Kg			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	10		10.00		100	63	147							
Sample ID LCS-9886	Sampī	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics					
Client ID: LCSS	Batcl	n ID: 98	86	R	tunNo: 1	4149								

Analyte	Result	PQL	SPK value	SPK Ret Val	%REC	LowLimit	HighLimit	%RPD	RPDLIMIT	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	77.1	128			
Surr: DNOP	4.5		5.000		89.3	63	147			
Sample ID MB-9905	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batch	h ID: 99	05	F	RunNo: 1	4182				
Prep Date: 10/18/2013	Analysis E	Date: 10	0/18/2013	S	SeqNo: 4	06691	Units: %RE	c		

SeqNo: 405467

Units: mg/Kg

Prep Date: 10/18/2013	Analysis D	ate: 1	0/18/2013	S	SeqNo: 4	06691	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	66	131			

Sample ID LCS-9905	SampType: LC	s	TestCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch ID: 99	05	RunNo: 1	4182				
Prep Date: 10/18/2013	Analysis Date: 10	0/18/2013	SeqNo: 4	06692	Units: %RE	c		
Analyte	Result PQL	SPK value SPK	Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9	5.000	97.3	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310843

21-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-9871 MK	SampT	ype: ME	BLK	Test	Code: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch	ID: R1	4160	R	lunNo: 1	4160				
Prep Date:	Analysis D	ate: 10)/17/2013	S	SeqNo: 4	05986	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	74.5	129			

Sample ID LCS-9871 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R14160 RunNo: 14160 Prep Date: Analysis Date: 10/17/2013 SeqNo: 406000 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual 74.5 Gasoline Range Organics (GRO) 26 5.0 25.00 103 126 Surr: BFB 940 1000 93.6 74.5 129

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310843

21-Oct-13

Client:

Blagg Engineering

Sample ID MB-9871 MK	Samp	Туре: Мі	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: R1	4160	F	RunNo: 1	4160				
Prep Date:	Analysis [Date: 10	0/17/2013	S	SeqNo: 4	06126	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	80	120			
Sample ID LCS-9871 MK	Samp ⁻	Гуре: LC	s	Tes	tCode: EI	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: R1	4160	F	RunNo: 1	4160				
Prep Date:	Analysis [Date: 10	0/17/2013	\$	SeqNo: 4	06127	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.5	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
-,, ,,	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.000								
Ethylbenzene Xylenes, Total	3.1	0.10	3.000	0	102	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 8 of 8



Hall Environmental Analysis Laborators 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number: 1310843 RcptNo: 1 Received by/date: Logged By: Ashley Gallegos 10/17/2013 9:50:00 AM Completed By: Ashley, Gallegos 10/17/2013 10:12:22 AM Reviewed By: Chain of Custody No 🗌 1. Custody seals intact on sample bottles? Yes 🗌 Not Present No 🗌 2. Is Chain of Custody complete? Yes 🗹 Not Present 3. How was the sample delivered? Courier Log In No 🗆 NA 🗌 4. Was an attempt made to cool the samples? Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 NA 🗌 No 🗆 6. Sample(s) in proper container(s)? Yes 🔽 7. Sufficient sample volume for indicated test(s)? Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? Yes NA 🗆 No 🗹 9. Was preservative added to bottles? Yes 🗌 Yes 🗌 No 🗆 No VOA Vials 10.VOA vials have zero headspace? No 🗸 Yes 11, Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗆 14. Is it clear what analyses were requested? V Yes 15. Were all holding times able to be met? Yes 🔽 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗆 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information

1.0

Cooler No Temp C Condition | Seal Intact | Seal No | Seal Date

Yes

Good

C	<u>hain</u>	<u>-of-Cu</u>	istody Record	lurn-Around	Time:	10/18/2013				L				NIV	/TE	_	RIF	w E	NT	AI	
Client:	3LAGE	S ENGL	UEELING INC.	☐ Standard	ĭXRush	10/18/2013														AL)RY	7
Ĭ.	30 A	WERIC	Δ	Project Name):				* . " ₄					iron				1			J
Mailing	Address	P.O.	Box 87	GCU	265E			49	01 H								оп. М 87	'109			
			NM 8743	Project #:			1			5-34							-410				
			52-1199							,		A	naly	/sis	Req	ues	à.				
email or				Project Mana	ger:			(yl	ĝ) 4)							T
QA/QC F	_		☐ Level 4 (Full Validation)	J. 8			\$ (802	(Gas o	30 AM			SIMS)		PO4,S(PCB's			!			
Accredi		□ Othe	er	Sampler: J	BLAGE VEST		ETIME	+ ТРН	30 / DF	18.1)	04.1)) ₃ ,NO ₂ ,	, / 8082		F)				N Z
□ EDD	(Type)_			Samplearen	erature:		1	38.	9)	pd 4	od 5	o o	stals	N,	ides	A)		8			15
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEADNO SE	BTEX + <u>MTBE + TMB</u> 's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO /地西)	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	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
9/16/2013	1218	SOIL	GP-1@16	402×1		-601	X		X									×			Τ
Ч	1223	ч	GP-1 @ 20'	ų		-002	x		×									X			
N	1236	ц	GP-1 @ 25'	t(-003	X		×									X	十		T
ù	1340	u	6P-2@25'	и		-004	×		x									X			
	 				******														\perp		_
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Date: 0/16/2013	Time:	Relinquish	3699	Received by: Received by:	e Velt	Date Time 19/15/2013 / 10/0 Date Time	Ren	l nark:	S:	B	المل	E	 کرم	166	,		لـــا	<u> </u>			
lulo	1860	Chr	istu (ibeles	Mil	u Ca	10/17/13 0950	<u> </u>										PE)				
jf	necessary,	samples sub	mitted to Hall Environmental may be subd	contracted to other ac	credited laboratorie	es. This serves as notice of this	possil	bility.	Any sụ	ib-cont	racted	l data v	will be	clearl	y nota	ted on	the ar	nalytica	ıl report		

Lab Order 1310C61

Date Reported: 10/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NWC-EB @ 22'

Project: GCU #265E Collection Date: 10/25/2013 11:42:00 AM

Lab ID: 1310C61-001

Matrix: SOIL

Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	11	10	mg/Kg	1	10/28/2013 10:31:56	PM 10040
Surr: DNOP	98.7	66-131	%REC	1	10/28/2013 10:31:56	PM 10040
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 3:01:47 F	M R14380
Surr: BFB	93.0	74.5-129	%REC	1	10/28/2013 3:01:47 F	M R14380
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 3:01:47 F	M R14380
Toluene	ND	0.050	mg/Kg	1	10/28/2013 3:01:47 F	M R14380
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 3:01:47 F	M R14380
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 3:01:47 P	M R14380
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	10/28/2013 3:01:47 P	M R14380

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Page 1 of 7 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Lab Order 1310C61

Date Reported: 10/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: W (CTR)-EB @ 21'

Project: GCU #265E

Collection Date: 10/25/2013 11:44:00 AM

Lab ID: 1310C61-002

Matrix: SOIL

Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analy	/st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/28/2013 10:53:52	PM 10040
Surr: DNOP	94.2	66-131	%REC	1	10/28/2013 10:53:52	PM 10040
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 3:32:01 F	PM R14380
Surr: BFB	93.6	74.5-129	%REC	1	10/28/2013 3:32:01 F	PM R14380
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 3:32:01 F	PM R14380
Toluene	ND	0.050	mg/Kg	1	10/28/2013 3:32:01 F	PM R14380
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 3:32:01 F	PM R14380
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 3:32:01 F	PM R14380
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	10/28/2013 3:32:01 F	PM R14380

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 7

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1310C61

Date Reported: 10/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Lab ID:

GCU #265E **Project:**

1310C61-003

Matrix: SOIL

Client Sample ID: NW-NSW @ 17'

Collection Date: 10/25/2013 12:01:00 PM

Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	:: BCN
Diesel Range Organics (DRO)	3200	100		mg/Kg	10	10/28/2013 11:15:49 PI	M 10040
Surr: DNOP	0	66-131	S	%REC	10	10/28/2013 11:15:49 PI	M 10040
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	210	25		mg/Kg	5	10/28/2013 4:02:07 PM	R14380
Surr: BFB	361	74.5-129	S	%REC	5	10/28/2013 4:02:07 PM	R14380
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.25		mg/Kg	5	10/28/2013 4:02:07 PM	R14380
Toluene	ND	0.25		mg/Kg	5	10/28/2013 4:02:07 PM	R14380
Ethylbenzene	ND	0.25		mg/Kg	5	10/28/2013 4:02:07 PM	R14380
Xylenes, Total	1.7	0.50		mg/Kg	5	10/28/2013 4:02:07 PM	R14380
Surr: 4-Bromofluorobenzene	109	80-120		%REC	5	10/28/2013 4:02:07 PM	R14380

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Page 3 of 7 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Analytical Report Lab Order 1310C61

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/29/2013

CLIENT: Blagg Engineering Client Sample ID: NW-NSW @ 20'

GCU #265E Collection Date: 10/25/2013 12:03:00 PM Project: Lab ID: 1310C61-004 Matrix: SOIL Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	3700	100		mg/Kg	10	10/28/2013 11:37:43	PM 10040
Surr: DNOP	0	66-131	S	%REC	10	10/28/2013 11:37:43	PM 10040
EPA METHOD 8015D: GASOLINE RA	NGE					Analy	st: NSB
Gasoline Range Organics (GRO)	17	5.0		mg/Kg	1	10/28/2013 4:32:18 F	PM R14380
Surr: BFB	158	74.5-129	S	%REC	1	10/28/2013 4:32:18 F	PM R14380
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.050		mg/Kg	1	10/28/2013 4:32:18 F	PM R14380
Toluene	ND	0.050		mg/Kg	1	10/28/2013 4:32:18 F	M R14380
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2013 4:32:18 F	PM R14380
Xylenes, Total	0.15	0.10		mg/Kg	1	10/28/2013 4:32:18 F	PM R14380
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/28/2013 4:32:18 F	M R14380

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDImit O
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310C61

29-Oct-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10040	Samp1	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batcl	h ID: 10	040	F	RunNo: 1	4373				
Prep Date: 10/28/2013	Analysis E	Date: 10	0/28/2013	\$	SeqNo: 4	12964	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	10		10.00		104	66	131			
Sample ID LCS-10040	SampT	ype: LC	s	Tes	tCode: Ef	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	n ID: 10	040	F	RunNo: 14	4373				
Prep Date: 10/28/2013	Analysis D)ate: 10	0/28/2013	S	SeqNo: 4	12965	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	77.1	128		•	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

700

WO#:

1310C61

29-Oct-13

Client:

Blagg Engineering

Project:

Surr: BFB

GCU #265E

Sample ID 5ML RB	SampTy	ype: M E	3LK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: R1	4380	F	RunNo: 1	4380				
Prep Date:	Analysis Da	ate: 10	0/28/2013	5	SeqNo: 4	13598	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	74.5	129			
Sample ID 2.5UG GRO LCS	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: R1	4380	F	RunNo: 1	4380				
Prep Date:	Analysis Da	ate: 10	0/28/2013	5	SeqNo: 4	13601	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74.5	126	_		
Surr: BFB	990		1000		99.4	74.5	129			
Sample ID 1310C61-001AMS	SampTy	/pe: MS	 }	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: NWC-EB @ 22'	Batch	ID: R1	4380	F	RunNo: 1	4380				
Prep Date:	Analysis Da	ate: 10	0/28/2013	\$	SeqNo: 4	13605	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	5.0	17.66	0	89.8	76	156			

Sample ID 1310C61-001AM	SD SampTy	pe: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: NWC-EB @ 22'	Batch	ID: R1	4380	F	RunNo: 1	4380				
Prep Date:	Analysis Da	ate: 10	0/28/2013	S	SeqNo: 4	13606	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	5.0	17.66	0	87.3	76	156	2.80	17.7	
Surr: BFB	700		706.2		98.6	74.5	129	0	0	

99.2

74.5

129

706.2

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1310C61

29-Oct-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID 5ML RB	Samp ⁻	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batc	h ID: R1	4380	F	RunNo: 1	4380					
Prep Date:	Analysis (Date: 10	0/28/2013	5	SeqNo: 4	13623	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
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 1310C61-002AM	S Samp	Type: MS	3	Tes	tCode: EI	PA Method	8021B: Volat	tiles			

Sample ID 13100	C61-002AMS	Samply	e: M	5	les	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: W (C)	ГR)-ЕВ @ 21'	Batch I	D: R1	4380	F	RunNo: 1	4380				
Prep Date:		Analysis Dal	e: 1	0/28/2013	8	SeqNo: 4	13630	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.52	0.050	0.7479	0	69.4	67.3	145			
Toluene		0.53	0.050	0.7479	0.01285	69.0	66.8	144			
Ethylbenzene		0.54	0.050	0.7479	0	72.8	61.9	153			
Xylenes, Total		1.7	0.10	2.244	0.01828	76.7	65.8	149			
Surr: 4-Bromofluorob	enzene	0.78		0.7479		105	80	120			

Sample ID 1310C61-002AN	ISD Samp	Туре: М	TestCode: EPA Method 8021B: Volatiles										
Client ID: W (CTR)-EB@	21' Batc	h ID: R1	4380	F	RunNo: 1								
Prep Date:	Analysis [Date: 10	0/28/2013	8	SeqNo: 4	13631	Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.51	0.050	0.7479	0	68.2	67.3	145	1.69	20				
Toluene	0.52	0.050	0.7479	0.01285	67.4	66.8	144	2.39	20				
Ethylbenzene	0.53	0.050	0.7479	0	70.9	61.9	153	2.60	20				
Xylenes, Total	1.7	0.10	2.244	0.01828	75.3	65.8	149	1.91	20				
Surr: 4-Bromofluorobenzene	0.75		0.7479		101	80	120	0	0				

Sample ID 100NG BTEX LCS	e ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batc	h ID: R1	4380	F	RunNo: 1	4380						
Prep Date:	Analysis [Date: 10)/28/2013	S	SeqNo: 4	13787	Units: mg/k	ίg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.99	0.050	1.000	0	99.1	80	120					
Toluene	1.0	0.050	1.000	0	101	80	120					
Ethylbenzene	1.0	0.050	1.000	0	102	80	120					
Xylenes, Total	3.1	0.10	3.000	0	104	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 7 of 7



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: 131	DC61			RcptNo:	1
Received by/dat	:e:	AF K	126/13		_				
Logged By:	Anne Thor	ne	10/26/2013 10	:20:00 AM		anne 2	A-	_	
Completed By:	Anne Thor	ne	10/28/2013			Ann L Ann L	M-	_	
Reviewed By:	70		10/28/13						
Chain of Cus	tody		, ,-						
1. Custody sea	ils intact on sa	mple bottles?		Ye	3 	No		Not Present	
2. Is Chain of C	Custody compl	lete?		Ye	· 🗸	No		Not Present	
3. How was the	e sample delive	ered?		Col	<u>urier</u>				
<u>Log In</u>									
4. Was an atte	empt made to o	cool the sample	es?	Ye	s 🗸	· No		NA 🗆	
5. Were all sar	nples received	l at a temperati	ure of >0° C to 6.0)°C Yes	V	No [. NA 🗆	
6. Sample(s) ii	n proper conta	iner(s)?		Ye	s 🗹	No			
7. Sufficient sa	mple volume f	for Indicated tes	st(s)?	Yes	₹	No i			
8. Are samples	(except VOA	and ONG) proj	perly preserved?	Yes		No			
9. Was preserv	vative added to	bottles?		Yes	. 🗆	No l	V	NA 🗌	
10.VOA vials ha	ave zero heads	space?		Yes		No [No VOA Vials	
11, Were any sa	ample containe	ers received br	oken?	Ye	_s \square	No	V	# of preserved	
12 p		4H- I-L-1-0		V	. •	No [\neg	bottles checked for pH:	
12. Does paperv (Note discre		ain of custody)		16		140			or >12 unless noted)
13. Are matrices	correctly iden	itified on Chain	of Custody?	Yes				Adjusted? _	
14. Is it clear wh	•	· ·		Yes		No (_		
15. Were all hold (if no, notify	ding times able customer for a			Yes	•	No l	J	Checked by:	
(,,		,							
Special Hand	lling (if app	licable)							•
16. Was client n	otified of all di	screpancies wi	th this order?	Yes		No [NA 🗹	_
Person	n Notified:			Date					
By Wh	nom:			Via: ☐ eM	lail 🗌	Phone 🔲 I	Fax	☐ In Person	
Regan	ding:	and the second of the second of	More of the Second Administration of the						
Client	Instructions:		· · · · · · · · · · · · · · · · · · ·		<u> </u>	*1 >=""		on a management of	
17. Additional re	emarks:								
18. Cooler Info		r Lawwa sar	≝gg 2 1	rian di Marina		l a.am.≌	<u>.</u>	į	
Cooler N	o Temp °C 3.3	Condition Good	Seal Intact Sea	l No Seal C	ate	Signed By	y ·		•
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Ch	ain-c	of-Cus	tody Record	Turn-Around T	ime:] ,			L	AL			NI V	7 T IC) (ne e	ЙΕ	N7	ra i	ł	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	✓ Rush _	24 HR.	 -												/T(
				Project Name:					<u>. </u>								.com					
Mailing Ad	dress:	P.O. BO	(87		GCU #265	E		49	01 H									37109	9			
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50)5-34	45-3	975	F	ax	505-	345	-410	7				
Phone #:		(505) 63		_			ે.કુંં												3		1	·
email or Fa	ax#:			Project Manag	jer:						40 30				3 4 5.				ş., ç.			
QA/QC Pac	_		Level 4 (Full Validation)	1	JEFF BLAGO	G	s-(8021B)	only)	/wine)			(S		04,504	8082 PCB's			er - 300.1)			0.	
Accreditati			·	Sampler:	NELSON VE	LEZ) 2 8 8 8 8	Gas		1)	1)	8270SIMS)		0 ₂ ,P	082			water			nple	
□ NELAP		□ Other		On Ice:	□ Yes	□ No	\$) Hd.	Id/	18.	504.1)	270		3,N	_		(¥	300.0 /		İ	Sal	2
□ EDD (T		-		Sample Temp	erature:			1 + 3	GRO	od 4	od 5	or 8	tals	I,NC	ides	(0,-	, ,		e l	osite	Ϋ́
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +*MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 ptcomposite sample	Air Bubbles (Y or N)
10/29/13	1335	SOIL	NW -NSW @ 17' (2)	4 oz 1	Cool		V		V											V		
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Date:	Time:	Relinquish	L ed by:	Received by:		Date Time	Rer	l nark	L s:	TPI	1 (80	015I	B) -	GRO	<u> </u>	DRC		ILY.				
10/30/13			Nela Vy	_				nd ir			•		•									
Date:	Time:	Relinquish		Received by:		Date Time					P.0	ngg E O. Bo oomf	x 87									ļ

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Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name:	☑ Rush _	24 HR.													ATC			,
Mailing Ad	ldress:	P.O. BOX	(87		GCU #265	5E			01 F	ławk						ntal ue, N		n 3710	9			
	To \$100 and	BLOOM	FIELD, NM 87413	Project #:			1)5-3 ₄				_	-	-345						
Phone #:		(505) 63	2-1199				4	,			frige Live	ne hat no	۱nal	ysis	Red	ques	ŧ			4 8	Bet .	25. 25.
email or F	ax#:			Project Manag	jer:			,	2/1					4				ਜ				Γ
QA/QC Pad	-		Level 4 (Full Validation)		JEFF BLAG	G	(8021B)	only)	(Out			15)		04,50	PCB's			er - 300.1}			נס	
Accreditati	ion:	•		Sampler:	NELSON V	ELEZ and	F	TPH (Gas	DRO/	(T	1)	SIS		102,1	8082			/ wat			sample	
□ NELAP	l	□ Other_		On tce;	X(Yes., □	`⊡ 'No] ₽	표	_	418	504	827(<u>ر</u> ا	03,1	_		Æ	00.0	1		es s	12
□ EDD (T	ype)	T		Sample Jemp	erature:	33	ļ	+	(GRO	pot	pot	ō	etals	Ž	cide	₹	i-V	ii - 3		흥	osit	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	BTEX +-RAFE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite	Air Dubhlaa
10/25/13	1142	SOIL	NWC - EB @ 22'	4 oz 1	Cool	-oul	٧		٧											V		Γ
																				\top		Γ
10/25/13	1144	SOIL	W (CTR) - EB @ 21'	4 oz 1	Cool	-002	٧		٧											٧		
10/25/13	1201	SOIL	NW -NSW @ 17'	4 oz 1	Cool	-003	V		√											V		_
		-,- \-				رون			•				<u> </u>	_						╧		<u> </u>
10/25/13	1203	SOIL	NW -NSW @ 20'	4 oz 1	Cool	-004	V		V											V		
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Date: /	Time:	Relinguishe	ed by:	Received by:	<u> </u>	Date Time	Ren	nark	s:	TPF	(80)15I	B) -	GRO	8 (DRC	ON	ILY.				<u></u>
125 /13	1439	1/M	mVf	Mr. tr.	Independent	19/25/13 1439	Se	nd ir		e to	:											
	Time:	Relinquishe	ed by:	Received by:		Date Time	İ						ngin x 87	eerin	ıg, In	C.						
25/13	1742	Mit	n Haller	and		10/26/13 10:20					Blo	omf	ield,	NM								
1-	If necess	aly, samples si	ubmitted to Hall Environmental may be s	subcontracted to other	accredited laboratorie	es. This serves as notice of	f this p	ossibil	ity. A	ny sub	-contr	acted	data v	vill be	clearly	notat	ed on	the an	alytical	repor	rt.	_

Lab Order 1310C84

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/29/2013

CLIENT: Blagg Engineering

Client Sample ID: SIDEWALL CIRCUMFERENC

Project: GCU 265E

Collection Date: 10/23/2013 7:32:00 AM

Lab ID:

1310C84-001

Matrix: SOIL

Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/28/2013 11:59:46 PM
Surr: DNOP	95.4	66-131	%REC	1	10/28/2013 11:59:46 PM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 5:02:35 PM
Surr: BFB	92.4	74.5-129	%REC	1	10/28/2013 5:02:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 5:02:35 PM
Toluene	ND	0.050	mg/Kg	1	10/28/2013 5:02:35 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 5:02:35 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 5:02:35 PM
Surr: 4-Bromofluorobenzene	99.2	80-120	%REC	1	10/28/2013 5:02:35 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	10/28/2013 1:19:56 PM

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Not Detected at the Reporting Limit Page 1 of 8 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report Lab Order 1310C84

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/29/2013

 CLIENT:
 Blagg Engineering
 Client Sample ID: N SIDEWALL @ 4'

 Project:
 GCU 265E
 Collection Date: 10/23/2013 7:37:00 AM

 Lab ID:
 1310C84-002
 Matrix: SOIL
 Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/29/2013 12:21:35 AM
Surr: DNOP	94.2	66-131	%REC	1	10/29/2013 12:21:35 AM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 10:06:59 PM
Surr: BFB	90.4	74.5-129	%REC	1	10/28/2013 10:06:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 10:06:59 PM
Toluene	ND	0.050	mg/Kg	1	10/28/2013 10:06:59 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 10:06:59 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 10:06:59 PM
Surr: 4-Bromofluorobenzene	96.3	80-120	%REC	1	10/28/2013 10:06:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	10/28/2013 1:32:21 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2 of 8
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report Lab Order 1310C84

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/29/2013

CLIENT: Blagg Engineering

Client Sample ID: SWC 2-pt COMP 7'-12'

GCU 265E Project:

Collection Date: 10/23/2013 1:50:00 PM

Lab ID: 1310C84-003

Matrix: SOIL

Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/29/2013 12:43:37 AM
Surr: DNOP	100	66-131	%REC	1	10/29/2013 12:43:37 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 10:37:12 PM
Surr: BFB	93.8	74.5-129	%REC	1	10/28/2013 10:37:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 10:37:12 PM
Toluene	ND	0.050	mg/Kg	1	10/28/2013 10:37:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 10:37:12 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 10:37:12 PM
Surr: 4-Bromofluorobenzene	97.9	80-120	%REC	1	10/28/2013 10:37:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	10/28/2013 1:44:45 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDIimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit
 Page 3 of 8
 Sample pH greater than 2 for VOA and TOC only. P
- RLReporting Detection Limit

Analytical Report Lab Order 1310C84

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/29/2013

 CLIENT:
 Blagg Engineering
 Client Sample ID: NWC 2-pt COMP 16'-18'

 Project:
 GCU 265E
 Collection Date: 10/23/2013 2:02:00 PM

 Lab ID:
 1310C84-004
 Matrix:
 SOIL
 Received Date: 10/26/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/29/2013 1:05:34 AM
Surr: DNOP	95.5	66-131	%REC	1	10/29/2013 1:05:34 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/28/2013 11:07:30 PM
Surr: BFB	92.7	74.5-129	%REC	1	10/28/2013 11:07:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/28/2013 11:07:30 PM
Toluene	ND	0.050	mg/Kg	1	10/28/2013 11:07:30 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/28/2013 11:07:30 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/28/2013 11:07:30 PM
Surr: 4-Bromofluorobenzene	95.7	80-120	%REC	1	10/28/2013 11:07:30 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	10/28/2013 1:57:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 8

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310C84

29-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-10046

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 10046

RunNo: 14404

Prep Date: 10/28/2013 Analysis Date: 10/28/2013

Units: mg/Kg

HighLimit

SeqNo: 413725

%RPD

%RPD

RPDLimit

Qual

Analyte Chloride

ND 1.5

Sample iD LCS-10046

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 10046

RunNo: 14404

HighLimit

Prep Date: 10/28/2013

SeqNo: 413726

Units: mg/Kg

Analyte

Analysis Date: 10/28/2013

RPDLimit Qual

Result SPK value SPK Ref Val %REC LowLimit

0

SPK value SPK Ref Val %REC LowLimit

Chloride

14 1.5

15.00

95.3

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310C84

29-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID MB-10040	Samp	Гуре: М Е	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batc	h ID: 10	040	F	RunNo: 1	4373				
Prep Date: 10/28/2013	Analysis E	Date: 10)/28/2013	S	SeqNo: 4	12964	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		104	66	131			
Sample ID LCS-10040	Sampl	Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batcl	h ID: 10	040	F	RunNo: 1	4373				
Prep Date: 10/28/2013	Analysis D	Date: 10)/28/2013	S	SeqNo: 4	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	77.1	128			
Surr: DNOP	5.1		5.000		103	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310C84

29-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID 5ML RB	SampT	Гуре: М Е	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: PBS	Batch	n ID: R1	4380	F	RunNo: 1	4380					
Prep Date:	Analysis D)ate: 10	0/28/2013	2013 SeqNo: 413598 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	930		1000		93.0	74.5	129				

Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS RunNo: 14380 Batch ID: R14380 Prep Date: Analysis Date: 10/28/2013 SeqNo: 413601 Units: mg/Kg HighLimit Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 104 74.5 126 Surr: BFB 990 1000 99.4 74.5 129

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310C84

29-Oct-13

Client:

Blagg Engineering

Project:

GCU 265E

Sample ID 5ML RB	Samp1	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: R1	4380	F	RunNo: 1	4380				
Prep Date:	Analysis D	Date: 10	0/28/2013	S	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
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 100NG BTEX LO	CS Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Bato	ch ID: R1	4380	F	RunNo: 1	4380									
Prep Date:	Analysis	Date: 10	0/28/2013	\$	SeqNo: 4	13787	Units: mg/k	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	0.99	0.050	1.000	0	99.1	80	120								
Toluene	1.0	0.050	1.000	0	101	80	120								
Ethylbenzene	1.0	0.050	1.000	0	102	80	120								
Xylenes, Total	3.1	0.10	3.000	0	104	80	120								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 8 of 8



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

Clier	nt Name:	BLAGG		Work C	Order Num	ber: 1310	C84			RcptNo:	1
Rece	ived by/dat	te:	- 14	26/13							
Logge	ed By:	Anne Thorr	ie	10/26/20	13 10:20:0	0 AM		anne,	Am	_	
Comp	pleted By:	Anne Thorr	10	10/28/20	13			Aone ,	A		
Revie	ewed By:	T0		10/28/	13						
Chai	n of Cus	tody									
1. C	Custody sea	als intact on sa	mple bottles?	•		Yes		No		Not Present	
2. Is	S Chain of (Custody compl	ete?			Yes	✓	No		Not Present	
3. H	low was the	e sample delive	ered?			Cour	<u>ier</u>				
Log	<u>In</u>										
4. y	Vas an atte	empt made to o	ool the samp	les?		Yes	V	No		NA 🗆	
5. V	Vere all sar	mples received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No		na 🗆	
6. s	Sample(s) in	n proper conta	ner(s)?			Yes	✓	No			
7. s	ufficient sa	mple volume f	or indicated to	est(s)?		Yes	✓	No			
8. A	ire samples	(except VOA	and ONG) pr	operly preserve	ed?	Yes	V	No			
9. W	Vas preserv	ative added to	bottles?			Yes		No	\checkmark	NA 🗆	
10.V	OA vials ha	ave zero heads	pace?			Yes		No		No VOA Vials 🗹	
11. V	Vere any sa	ample containe	ers received b	roken?		Yes		No	✓	# of preserved	
42 B			#- I-b-I-O			Yes		No		bottles checked for pH:	
		work match bot pancies on cha)		Yes	Y	NO			r >12 unless noted)
13. A	re matrices	correctly Iden	tified on Chai	n of Custody?		Yes	\checkmark	No		Adjusted? _	
14. Is	it clear wh	at analyses we	ere requested	?		Yes	\checkmark	No			
		ding times able customer for a				Yes	\checkmark	No		Checked by:	
٧.	i no, nom	oustonier for e	autorization.,								
Spec	ial Hand	lling (if app	licable)								
16. W	Vas client n	otified of all di	screpancies v	vith this order?		Yes		No		NA 🗹	_
	Persor	n Notified:			Date	,	-				
	By Wh	nom:			Via:	eMa	iil 🗀] Phone [Fax	☐ In Person	
	Regard	ding:								A de fer advances and a solver	
	Client	Instructions:						*.,			
17. <i>p</i>	Additional r	emarks:									
18. <u>c</u>	Cooler Info		Condition	Seal Intact	Seal No	Seal Da	ate "	Signed I	Bv	[
	1	3.3	Good	Not Present	,ai 110	300.00		A13-144 r			

C	<u>h</u> ain-	of-Cu	stody Record	Turn-Around	Time:	By 7	vesdax		HALL ENVIROR ANALYSIS LAB						RIB	A E I	A 1 T #	A E		
Client:	BLAG	G ENG	INEEKING INC.	☐ Standard	Rush	\\ \	24/2013	<u>L</u> г		H	A								TO	
_	RPI	MERI	<u> </u>	Project Name):		,		Ċ	o.				nviror						
Mailing	Address	P.O.	Box 87		CU Z	65E			490	01 H				dbuq				109		
	Bwor	WEELD	NM 87413	Project #:					Te	el. 50	5-34	5-397	' 5	Fax	505	-345-	410	7		
Phone:	#: ₌ 50	25-6	32-1199	7										ilysis	Rec	ues				
email o				Project Mana	ger:			$\widehat{}$	_							,,,,,				
QA/QC Star	Package: dard		□ Level 4 (Full Validation)	J	FF BAC	·b		s (8021	Gas or	H##/ 0)			SIMS)	PO ₄ ,SC	PCB's					
Accred	tation		er	Sampler:	Jeff :	BLAGG BNO		E TMB	+ TPH	RO / DF	18.1)	04.1)	8270	NO ₂ ,	/ 8082		₹) Z
	(Type)_		- 100	Sample Temi	perature:	<u>Su</u>	3.	H	H .	(GF	,4 p	10 50	<u>ه</u> ا		ides	2	9	No.		&
Date	Time	Matrix		Container Type and #	Preservative Type		AL No	BTEX + MTBE 生工MBS (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH'S (8310 or 8270	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)
723/3	0732	Socc	51DEWALL CIRCOMFERRICE 7-pt@41	402×1	COOL		-001	X		X								X		
и	0737	ų	N SINEMALL @ 4"	11	l)		-002	X		X			1					X		++
tı	1350	. 18	SWC 2-pt comp	fl	14		-03			X	1		+	+	\vdash			$\frac{1}{\chi}$	+	++-
4	1402	1(N SIDEMALL @ 4' SWC 2-pt comp 7'-12' NWC 2-pt comp. 16'-18	ı,	Ιŗ		-004	×		×								1		
•						}					\dashv		+		-				_	1
		·													-				+	++-
						1								-	-					++
												-	+						+	++
Date:	Time: 1439	Relinquish	ed by: Blyy	Received by: Chustus	Walter	Date Date	Time : 1439	Ren	nark		Bu	1	BL	A601	د.	1	<u> </u>	[
Date: 0 25 3	Time:	Reffiquish	etu Waller	Received by:	1	Date 0 4 (Time 3 /0:25				BP	Co	ntee	4 :	JĒ	FF	尼	4ce		

Ch	nain-c	of-Cus	stody Record	HALL ENVIRONMENTA							ГА											
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	√ Rush _	72 HR.											BO					
				Project Name:													l.com		411	Ur	L	
Mailing Ac	ldress:	P.O. BO	X 87	•	GCU #265	SE		49	01 H								con VM 8		9			
		BLOOM	FIELD, NM 87413	Project #:				Τe	el. 50)5-34	15-3	975	F	ax .	505-	-345	-410)7				
Phone #:		(505) 63	32-1199				2,000	e 2 3			K 3	Δ.,	\nal	ysis	Re	ques	st 🦠		100			* . A
email or Fa	ax#:			Project Manag	jer:		- 4-			G., , ,	*D1/ ₂ +		. ,					1)				
QA/QC Pac	-		Level 4 (Full Validation)		JEFF BLAGO	G	(8021B)	MTBE + TPH (Gas only)	/wine)			15)		04,504	PCB's			er - 300.1)		į	a)	
Accreditati	on:			Sampler:	NELSON VE	LEZ	<u> </u>	(Gas	DRO /	1)	1)	SIM		10 ₂ ,F	8082			/ water			sample	
□ NELAP		□ Other		On Ice:	☐ Yes	□ No] 🖁	ТРН	_	418.	504.1)	8270SIMS)		0 ₃ ,N	_		(A)	300.0 /			e sa	S S
□ EDD (T	ype)	<u> </u>		Sample Tempe	erature:	T]	3E + `	(GR(pou	pot	o	etals	CI,N	cide	(F)	-i-V			<u>e</u>	osit	(<u>,</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +**MTBE	BTEX + MTE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	2 pt. composite	Air Bubbles (Y or N)
10/28/13	1245	SOIL	CTR - SSW @ 8'	4 oz 1	Cool		V		V											V		
			· · · · · · · · · · · · · · · · · · ·															\Box		Ť	\dashv	
10/28/13	1251	SOIL	2PC - CTR/S - EB @ 16' & 18'	4 oz 1	Cool		٧		٧												V	
10/28/13	1254	SOIL	2PC - CTR/NSW @ 8' & 16'	4 oz 1	Cool		٧		٧												٧	
					"																	
_																						
	_																					
					"															\Box		
	Time:	Relinquish		Received by:		Date Time	Ren	nark	s:													
10/29/13			Melo Vy				Se	nd in	voic	e to :			•_			_						
Date:	Time:	Relinquish	ed by:	Received by:		Date Time					P.C	gg Er). Box omfi	x 87		_		ı					
																						

	nain-c	f-Cus	tody Record	Turn-Around I	ime:		HALL ENVIRONMENTAL															
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	72 HR.													ATC		_	
				Project Name:					/ THE		ww	w.ha	llen	viro	nme	ntal	.com	1				
Mailing Ad	dress:	P.O. BO	X 87		GCU #265	SE		49	01 H	awk	ins I	NE -	Alb	ouqu	erqu	ıe, N	IM 8	710	9			
	-	BLOOM	FIELD, NM 87413	Project #:						5-34							-410					
Phone #:		(505) 63	2-1199		***			1 1			no	Å	nal	ysis	Rec	lues	t.			ئرىيە. د		
email or Fa	ex#:		- <u>-</u> -	Project Manag	jer:									(4)				.1)				
QA/QC Pac ☑ Standa	_		Level 4 (Full Validation)		JEFF BLAGO	G	5 (8021B)	+ TPH (Gas only)	/mwo			/IS)		PO4,SO	2 PCB's			ter - 300.1)			<u>ه</u>	
Accreditati	on:			Sampler:	NELSON VE	LEZ] } }	(Gas	DRO,	.1)	.1)	8270SIMS)		VO ₂ ,	8082			/ water			sample	
□ NELAP		□ Other	····	On Ice:	□ Yes	□ No	Į∦	TPH	_	418.1)	504	827	S	03,1	/ se		(AC	300.0			te s	or N
□ EDD (T	ype)	<u> </u>		Sample Tempe	erature:		1	BE +	(GR	poq	hod	or (etal	CI,N	icid	(AC)-ir	- 1		뤈.	30S	اخ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + TANTE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil	,	ge .	2 pt. composite	Air Bubbles (Y
10/29/13	1250	SOIL	2PC - E - ESW @ 8' & 16'	4 oz 1	Cool		٧		٧											┨.	√	
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Date:	 Time:	Relinquish	ed by:	Received by:		Date Time	Dav												$\perp \perp$		丄	_
10/30/13	THIRE.	Ciriquisti	Mela Vy-	Traceived by.		Date Time	ł	nark ı nd i r		e to		F	•_	•		_			,			
Date:	Time:	Relinquish	ed by:	Received by:		Date Time		Blagg Engineering, Inc. P.O. Box 87 Bloomfield, NM 87413					x 87					•				

Lab Order 1310D95

Date Reported: 11/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: CTR-SSW@8'

Project: GCU #265E

Collection Date: 10/28/2013 12:45:00 PM

Lab ID: 1310D95-001

Matrix: SOIL Received Date: 10/30/2013 9:44:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				_	Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2013 4:11:34 PM	10124
Surr: DNOP	91.1	66-131		%REC	1	11/1/2013 4:11:34 PM	10124
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/31/2013 1:07:32 PM	1 10112
Surr: BFB	99.3	74.5-129		%REC	1	10/31/2013 1:07:32 PM	1 10112
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.047		mg/Kg	1	10/31/2013 1:07:32 PM	1 10112
Toluene	ND	0.047		mg/Kg	1	10/31/2013 1:07:32 PM	1 10112
Ethylbenzene	ND	0.047		mg/Kg	1	10/31/2013 1:07:32 PM	1 10112
Xylenes, Total	ND	0.095		mg/Kg	1	10/31/2013 1:07:32 PM	1 10112
Surr: 4-Bromofluorobenzene	122	80-120	S	%REC	1	10/31/2013 1:07:32 PM	1 10112

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 6

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1310D95

Date Reported: 11/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample 1D: 2PC-CTR/S-EB@16'&18'

GCU #265E Project:

Collection Date: 10/28/2013 12:51:00 PM

1310D95-002 Lab ID:

Matrix: SOIL Received Date: 10/30/2013 9:44:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/1/2013 4:33:38 PM	10124
Surr: DNOP	91.9	66-131	%REC	1	11/1/2013 4:33:38 PM	10124
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2013 2:33:18 P	M 10112
Surr: BFB	97.3	74.5-129	%REC	1	10/31/2013 2:33:18 P	M 10112
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/31/2013 2:33:18 PI	M 10112
Toluene	ND	0.047	mg/Kg	1	10/31/2013 2:33:18 PI	M 10112
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2013 2:33:18 PI	M 10112
Xylenes, Total	ND	0.095	mg/Kg	1	10/31/2013 2:33:18 PI	M 10112
Surr: 4-Bromofluorobenzene	119	80-120	%REC	1	10/31/2013 2:33:18 Pi	M 10112

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit RL

Lab Order 1310D95

Date Reported: 11/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 2PC-CTR/NSW@8'&16'

Project: GCU #265E

Collection Date: 10/28/2013 12:54:00 PM

Lab ID: 1310D95-003

Received Date: 10/30/2013 9:44:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/1/2013 4:55:37 PM	10124
Surr: DNOP	92.7	66-131	%REC	1	11/1/2013 4:55:37 PM	10124
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/31/2013 3:01:49 PM	1 10112
Surr: BFB	97.4	74.5-129	%REC	1	10/31/2013 3:01:49 PM	1 10112
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	10/31/2013 3:01:49 PM	1 10112
Toluene	ND	0.048	mg/Kg	1	10/31/2013 3:01:49 PM	1 10112
Ethylbenzene	ND	0.048	mg/Kg	1	10/31/2013 3:01:49 PM	1 10112
Xylenes, Total	ND	0.096	mg/Kg	1	10/31/2013 3:01:49 PM	1 10112
Surr: 4-Bromofluorobenzene	118	80-120	%REC	1	10/31/2013 3:01:49 PM	1 10112

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 6

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310D95

04-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10124	Samp	Гуре: М Е	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batc	h ID: 10	124	F	RunNo: 1	4475				
Prep Date: 10/31/2013	Analysis [Date: 10	0/31/2013	S	SeqNo: 4	16119	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		102	66	131			
Sample ID LCS-10124	Samp	 Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Drganics	
Client ID: LCSS	Batcl	h ID: 10	124	F	RunNo: 1	4475				
Prep Date: 10/31/2013	Analysis [Date: 10	0/31/2013	S	SeqNo: 4	16120	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
Diesel Range Organics (DRO)	44	10	50.00	0	87.2	77.1	128			
Surr: DNOP	4.6		5.000		91.9	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1310D95

04-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10112 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 10112 PBS RunNo: 14496 Prep Date: 10/30/2013 Analysis Date: 10/31/2013 SeqNo: 416360 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 960 1000 96.4 74.5 129 Sample ID LCS-10112 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS	Batch	i ID: 10	112	F	RunNo: 1	4496				
Prep Date: 10/30/2013	Analysis D	ate: 10)/31/2013	8	SeqNo: 4	16361	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.0	74.5	126			
Surr: BFB	1100		1000		105	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D95**

04-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10112	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 10	112	F	RunNo: 1	4496				
Prep Date: 10/30/2013	Analysis E	Date: 10	0/31/2013	S	SeqNo: 4	16389	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID LCS-10112	Sampl	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: 10	112	F	RunNo: 1	4496				
Prep Date: 10/30/2013	Analysis [Date: 10	0/31/2013	S	SeqNo: 4	16390	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	80	120			S

Sample ID 1310D95-001AM	S Samp	Гуре: М .	3	Tes						
Client ID: CTR-SSW@8'	Batc	h ID: 10	112	F	RunNo: 1	4496				
Prep Date: 10/30/2013	Analysis [Date: 10	0/31/2013	S	SeqNo: 4	16392	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.047	0.9461	0	96.9	67.3	145			
Toluene	0.95	0.047	0.9461	0.006847	99.4	66.8	144			
Ethylbenzene	0.97	0.047	0.9461	0	103	61.9	153			
Xylenes, Total	2.9	0.095	2.838	0	104	65.8	149			
Surr: 4-Bromofluorobenzene	1.2		0.9461		124	80	120			S

Sample ID 1310D95-001AN	ISD SampT	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: CTR-SSW@8'	Batch	n ID: 10	112	F	RunNo: 1	4496				
Prep Date: 10/30/2013	Analysis D	Date: 10	0/31/2013	9	SeqNo: 4	16393	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.047	0.9452	0	102	67.3	145	5.24	20	
Toluene	1.0	0.047	0.9452	0.006847	105	66.8	144	5.76	20	
Ethylbenzene	1.0	0.047	0.9452	0	107	61.9	153	3.89	20	
Xylenes, Total	3.1	0.095	2.836	0	109	65.8	149	4.63	20	
Surr: 4-Bromofluorobenzene	1.2		0.9452		125	80	120	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 6 of 6

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** RcptNo: 1 Work Order Number: 1310D95 Received by/date: Logged By: Ashley Gallegos 10/30/2013 9:48:05 AM Completed By: **Ashley Gallegos** 10/30/13 Reviewed By: ZO Chain of Custody Not Present ▼ 1 Custody seals intact on sample bottles? Yes No Yes 🗸 Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No NA 5. Were all samples received at a temperature of >0° C to 6.0°C No ! NA 6. Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? No Yes 9. Was preservative added to bottles? No NA Yes No VOA Vials ▼ 10.VOA vials have zero headspace? No 11. Were any sample containers received broken? No V Yes # of preserved bottles checked No i for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No 14 Is it clear what analyses were requested? Checked by: 15. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes | No NA V 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 Good Yes

U	nain-c	or-Cus	stody Record	1			Ι,			L	44		F	N	/TI	20	NI	MF	N.	TA!	ı	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	72 HR.											ВО					
			•	Project Name:							ww	w.ha	aller	viro	nme	ntal	.com	1				
Mailing A	ddress:	P.O. BO	X 87		GCU #265	SE	J	49	0 1	ławl	kins	NE -	- All	buqı	Jerq	ue, N	8 MI	3710	9			
		BLOOM	FIELD, NM 87413	Project #:				Τe	l. 50)5-3·	45-3	975		Fax	505	-345	-410)7			•	
Phone #:	•	(505) 63	32-1199							Tark.		Comments of	4na	lysis	Rec	ques	st		A STATE OF THE PARTY OF THE PAR			5
email or F	ax#:			Project Manag	jer:				別し	<u></u>				-\$				1)				
QA/QC Pa	-		Level 4 (Full Validation)		JEFF BLAG	G	8021B)		(Called)					05,50	PCB's			er - 300.1)			a	
Accreditat				Sampler:	NELSON VI	ELEZ nv	*	Gas	DRO /	(F)	1	8270SIMS)		02.	/ 8082			water			du	
□ NELAF)	□ Other		On Ice	¥ψ Yes		1	PH	_	118.	92	270		S.	s/8		র	300.0 /			e sa	,
□ EDD (1	Гуре)			Sample Temp	erature	f(f)		Ë +]	(GRC	po	bo	6	tals	Ν̈́	cide	æ	i-VC			<u>e</u>	osiț	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX +-NATE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	2 pt. composite sample	
10/28/13	1245	SOIL	CTR - SSW @ 8'	4 oz 1	Cool	-001	٧		٧											V		_
		Ì										_		_							一	_
10/28/13	1251	SOIL	2PC - CTR/S - EB @ 16' & 18'	4 oz 1	Cool	-002	V		٧				-	-		 					٧	_
	<u> </u>		-			1	╅		•	┝					\vdash		\vdash			\neg	+	_
10/28/13	1254	SOIL	2PC - CTR/NSW @ 8' & 16'	4 oz 1	Cool	-003	٧		٧												٧	_
							<u> </u>										\square					
																						1
																						_
Date:	Time:	Relinquish	ed by:	Received by:	<u> </u>	Date Time	Rer	nark	s:	٠	I	·	1			<u></u>			1		L	_
19/29/13	832	1711	my	Mint	Waste	10/29/13 832	Se	nd in	voic	e to				اسمم		_						
Date:	Time:	Relinquish	ed by: V	Received by:	, 1	Date Time	1					igg t D. Bo			ng, In	ic.						
10/19/13	174	1 thri	otu Walle	40	10/30	13 0944									8741							
f - 1	If necess	aly, samples s	submitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie	s. This serves as notice of	f this p	ossibil	ity. A	ny sub	-contr	acted	data v	will be	clearly	/ notat	ed on	the an	alytica	il repo	t.	

Lab Order 1310E46

Date Reported: 11/5/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 2PC - E - ESW @ 8' & 16'

Project: GCU #265E

Collection Date: 10/29/2013 12:50:00 PM

Lab ID: 1310E46-001

Matrix: SOIL Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/4/2013 6:09:31 PM	10142
Surr: DNOP	102	66-131	%REC	1	11/4/2013 6:09:31 PM	10142
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/4/2013 12:29:09 PN	1 10143
Surr: BFB	90.3	74.5-129	%REC	1	11/4/2013 12:29:09 PN	1 10143
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.048	mg/Kg	1	11/4/2013 12:29:09 PM	1 10143
Toluene	ND	0.048	mg/Kg	1	11/4/2013 12:29:09 PM	1 10143
Ethylbenzene	ND	0.048	mg/Kg	1	11/4/2013 12:29:09 PM	1 10143
Xylenes, Total	ND	0.095	mg/Kg	1	11/4/2013 12:29:09 PM	1 10143
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	11/4/2013 12:29:09 PM	1 10143

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 4

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310E46

05-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

ole ID LCS-10142

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS

Batch ID: 10142

RunNo: 14536

128

131

Prep Date: 11/1/2013

Analysis Date: 11/4/2013 **PQL**

SeqNo: 417961

Units: mg/Kg

Analyte Diesel Range Organics (DRO)

43 10 4.5

SPK value SPK Ref Val %REC LowLimit 86.0

HighLimit

%RPD **RPDLimit** Qual

Surr: DNOP

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

66

LowLimit

61.3

66

77.1

66

Client ID: **PBS** Prep Date: 11/1/2013

Sample ID MB-10142

Batch ID: 10142 Analysis Date: 11/4/2013

Result

RunNo: 14536 SeqNo: 418362

90.7

Units: mg/Kg

Analyte Diesel Range Organics (DRO) Result PQL ND 10 SPK value SPK Ref Val %REC

n

LowLimit

HighLimit %RPD **RPDLimit** Qual

Surr: DNOP

10

10.00

50.00

5.000

102

131

Sample ID 1310E46-001AMS

SampType: MS

TestCode: EPA Method 8015D: Diesel Range Organics

Prep Date: 11/1/2013

Client ID: 2PC - E - ESW @ 8'

Batch ID: 10142

10

RunNo: 14536

Analyte

Result **PQL**

50

4.7

Result

Analysis Date: 11/4/2013 SPK value SPK Ref Val

50.20

5.020

SeqNo: 418386 %REC

99.4

Units: mg/Kg HighLimit

138

131

%RPD **RPDLimit** Qual

Diesel Range Organics (DRO) Surr: DNOP

Sample ID 1310E46-001AMSD

SampType: MSD

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: 2PC - E - ESW @ 8' Batch ID: 10142 Prep Date: 11/1/2013 Analysis Date: 11/4/2013 RunNo: 14536 SeqNo: 418388

Units: mg/Kg

HighLimit %RPD **RPDLimit**

0

Qual

Surr: DNOP

Diesel Range Organics (DRO)

Analyte

56 50.10 10 4.9 5.010

PQL

%REC SPK value SPK Ref Val 0 112

LowLimit 61.3 97.7 66

138 131

20 11.3 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- Analyte detected below quantitation limits 1
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310E46

05-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10143	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batcl	h ID: 10	143	F	tunNo: 1	4567				
Prep Date: 11/1/2013	Analysis [)ate: 11	1/4/2013	S	SeqNo: 4	18282	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.7	74.5	129			

Sample ID LCS-10143	SampType: LCS TestCode: EPA Method 8						8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	1D: 10	143	R	RunNo: 1	4567				
Prep Date: 11/1/2013	Analysis D	ate: 1	1/4/2013	S	SeqNo: 4	18283	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	74.5	126			
Surr: BFB	970		1000		97.3	74.5	129			

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310E46

05-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Project:	GCU #.	203E									
Sample ID	MB-10143	Sampi	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID:	PBS	Batcl	h ID: 10	143	F	RunNo: 1	4567				
Prep Date:	11/1/2013	Analysis [Date: 1 1	1/4/2013	S	SeqNo: 4	18316	Units: mg/k	(g		
Analyte	_	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050							2 - 100 - 100	
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	LCS-10143	Samp1	mpType: LCS TestCode: EPA Method						tiles		
Client ID:	LCSS	Batcl	n ID: 10	143	F	RunNo: 1	4567				
Prep Date:	11/1/2013	Analysis D)ate: 1 1	1/4/2013	5	SeqNo: 4	18318	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	101	80	120			
Toluene		1.0	0.050	1.000	0	104	80	120			
Ethylbenzene		1.0	0.050	1.000	0	104	80	120			
Xylenes, Total		3.2	0.10	3.000	0	106	80	120			
Surr: 4-Brom	nofluorobenzene 	1.1		1.000		114	80	120 			
Sample ID	1310E46-001AM	IS SampT	ype: M S	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	2PC - E - ESW (@ 8' Batch	n ID: 10	143	F	RunNo: 14	4567				
Prep Date:	11/1/2013	Analysis D)ate: 1 1	1/4/2013	8	SeqNo: 4	18320	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.047	0.9452	0.006857	94.7	67.3	145			
Toluene		0.95	0.047	0.9452	0.007781	99.7	66.8	144			
Ethylbenzene		0.96	0.047	0.9452	0	101	61.9	153			
Xylenes, Total		2.9	0.095	2.836	0	102	65.8	149			
Surr: 4-Brom	nofluorobenzene	1.1		0.9452		113	80	120			
Sample ID	1310E46-001AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	2PC - E - ESW @	W @ 8' Batch ID: 10143 RunNo: 14567									
Prep Date:	11/1/2013	Analysis D	ate: 11	1/4/2013	8	SeqNo: 4	18322	Units: mg/k	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.88	0.047	0.9452	0.006857	92.0	67.3	145	2.87	20	
Toluene		0.90	0.047	0.9452	0.007781	94.9	66.8	144	4.93	20	
Ethylbenzene		0.93	0.047	0.9452	0	97.9	61.9	153	3.20	20	

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

* Value exceeds Maximum Contaminant Level.

2.8

1.1

0.095

2.836

0.9452

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

65.8

80

149

120

2.81

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

99.2

112

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

0

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20



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Numb	er: 1310E46		RcptNo:	1
Received by/date:	10/31/13	·····			
Logged By: Michelle Garcia	10/31/2013 10:00:00) AM	Michelle Ga	rue)	
Completed By: Michelle Garcia	10/31/2013 10:39:09) AM	Michiello Ga Michiello Ga		
Reviewed By:	والمجام		7		•
Chain of Custody	10131113	-			
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			
<u>Log In</u>					
4. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperat	ure 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 te	st(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA \square	•
10.VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials ☑	
11. Were any sample containers received br	oken?	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)
13. Are matrices correctly identified on Chair		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 wi	th this order?	Yes 🗌	No 📙	NA 🗹	1
Person Notified:	Date:				
By Whom:	Via:	eMail F	Phone 🗌 Fax	☐ In Person	
Regarding:			opensed to have the desired for the well through the	Management of the second of th	
Client Instructions:		THE PARTY OF THE PROPERTY OF THE PARTY OF TH	THE ANY ANGLOS IS NOT THE PARTY OF	to real and decrease a contradiction of a self-state of the title.	
17. Additional remarks:					
18. Cooler Information	- राज्यासम्बद्धाः स्थापनार १५८८ वस्त । सः स्वतः १५८४ वस्ति ।	ኒ <i>ላይ ፍ</i> ርብ <u>ታ</u> ያልተው ለመዝገና	STEPPENEL PROTECT		
Cooler No Temp °C Condition 1 2.6 Good	Seal Intact: Seal No.	Seal Date	Signed By		
1 2.0 0000					

<u> </u>	nain-c	of-Cus	tody Record				١,	1	1 1	ŀ	1 A	11	F	NV	/T F	3 0	NI	ME	NT	ΓΔΪ	Ĺ	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	Rush _	72 HR.												R.A				
		· · · · · ·		Project Name						_		w.ha										
Mailing Ad	dress:	P.O. BO	X 87		GCU #265	E		49	01 F	lawk								37109	9			
		BLOOM	FIELD, NM 87413	Project #:	*****		1					975		•	505-							
Phone #:		(505) 63	2-1199							,		7.7	۱nal	ysis	Rec	lues	t					e
email or Fa	x#:			Project Manag	jer:		Ī	0	72 V					4)				न				_
QA/QC Pac	_		Level 4 (Full Validation)		JEFF BLAGO	3	5 (8021B)	TPH (Gas only)	ARO			(S)		05,50	PCB's			er - 300.1)			a	
Accreditati	on:			Sampler:	NELSON VE	LEZ M	 	(Gas	DRO/	1)	ਜ਼	8270SIMS)		102,1	8082			/ water			E d	l
□ NELAP		☐ Other		On ice:	To describe the second second second	.□ No	1	표	_	418.1)	504.1)	827(ړ	03,1	1		(A)	300.0 /			e Sa	:
□ EDD (T	ype)	_		Sample Temp	érature: " 2		1	+	GR (DO DO		etal	Ž,	icide	(A)	i-V(. , .		e l	Sit	;
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 13/0E4/2	BTEX ++ NATH	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	2 pt. composite sample	:
10/29/13	1250	SOIL	2PC - E - ESW @ 8' & 16'	4 oz 1	Cool	-001	V		٧										寸	_	٧	_
																					\exists	$\bar{}$
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																				\top		
																			1	寸		_
	 .:																		十	十		_
																				寸		_
																						_
																			\top	7	\neg	_
																				寸	_	_
															_				\exists	7		_
														-				П	\exists	\neg	\neg	Γ
Date:	Tlme:	Relinquish	ed by:	Received by:		Date Time	Rer	nark	s:	£	1	J	·	L	L.,	l	l					
10/30/13 Date:	1607 Time:	Relinquish	lm V	My ty	u Waller	10/30/13 1407	Se	nd ir	nvoid	e to	Bla	igg E	_		ıg, in	ıc.						
30/3	1721	1 🔥	rinten Walters		# 10	313100						o. Bo omf			8741	L 3						

Lab Order 1310E45

Date Reported: 11/1/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NW-NSW @ 17' (2)

Project: GCU #265E

Collection Date: 10/29/2013 1:35:00 PM

Lab ID: 1310E45-001

Matrix: MEOH (SOIL)

Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/31/2013 2:25:09 P	M 10124
Surr: DNOP	102	66-131	%REC	1	10/31/2013 2:25:09 P	M 10124
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2013 11:13:11	AM R14496
Surr: BFB	96.3	74.5-129	%REC	1	10/31/2013 11:13:11	AM R14496
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.050	mg/Kg	1	10/31/2013 11:13:11	AM R14496
Toluene	ND	0.050	mg/Kg	1	10/31/2013 11:13:11	AM R14496
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2013 11:13:11	AM R14496
Xylenes, Total	ND	0.10	mg/Kg	1	10/31/2013 11:13:11	AM R14496
Surr: 4-Bromofluorobenzene	118	80-120	%REC	1	10/31/2013 11:13:11	AM R14496

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 4

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310E45

01-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Project: GCU #	265E								
Sample ID MB-10124	SampType: MBL	K	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batch ID: 1012	4	F	RunNo: 1	4475				
Prep Date: 10/31/2013	Analysis Date: 10/3	31/2013	S	SeqNo: 4	16119	Units: mg/F	(g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	10	10.00		102	66	131			
Sample ID LCS-10124	SampType: LCS		Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch ID: 1012	4	F	RunNo: 14	4475				
Prep Date: 10/31/2013	Analysis Date: 10/3	1/2013	S	SeqNo: 4	16120	Units: mg/k	(g		
Analyte	Result PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	87.2	77.1	128			
Surr: DNOP	4.6	5.000		91.9	66	131			

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310E45

01-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10112 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: R14496

RunNo: 14496

SeqNo: 416357

Prep Date:

Analysis Date: 10/31/2013

Units: mg/Kg HighLimit

Analyte

Result **PQL**

129

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 960

1000

96.4

74.5

LowLimit

%RPD

Sample ID LCS-10112 MK

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

Batch ID: R14496

5.0

5.0

RunNo: 14496

Prep Date:

Analysis Date: 10/31/2013

SeqNo: 416358 %REC

Units: mg/Kg

HighLimit

Qual

Analyte Gasoline Range Organics (GRO) Result **PQL**

SPK value SPK Ref Val 25.00

99.0

74.5

%RPD

126

RPDLimit

Surr: BFB

25 1100

1000

0

SPK value SPK Ref Val %REC

105

74.5

LowLimit

129

Qualifiers:

Е

O

Value exceeds Maximum Contaminant Level.

I Analyte detected below quantitation limits

RSD is greater than RSDlimit R RPD outside accepted recovery limits

Value above quantitation range

S Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310E45

01-Nov-13

Client:

Blagg Engineering

Project:

GCU #265E

Sample ID MB-10112 MK	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: R1	4496	F	RunNo: 1	4496				
Prep Date:	Analysis [Date: 10	0/31/2013	5	SeqNo: 416386 Un		Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050		<u> </u>				-		
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			
Sample ID LCS-10112 MK	Samp1	Type: LC	s	Tes	PA Method	8021B: Volat	tiles			
0" 15 100	Б. (_						

Sample ID LCS-10112 MK	Samp ⁻	Type: LC	:s	Tes	8021B: Vola	tiles				
Client ID: LCSS	Batc	h ID: R1	4496	F	RunNo: 1	4496				
Prep Date:	Analysis [Date: 10	0/31/2013	SeqNo: 416387 U			Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	80	120			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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- RL Reporting Detection Limit

Page 4 of 4



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	er: 1310E45		RcptNo: 1							
Received by/date: LH /	0/31/13										
Logged By: Michelle Garcia	10/31/2013 10:00:00	AM	Michell Gan	ui.							
Completed By: Michelle Garcia	10/31/2013 10:34:43	AM	Muhill Gan Michiel Gan	·······································							
Reviewed By: NB 10/31//3			<u>. </u>								
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									
<u>Log In</u>											
4. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	NA 🗆							
5. Were all samples received at a temperatu	re 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 tes	t(s)?	Yes 🗹	No 🗆								
8. Are samples (except VOA and ONG) prop	erly 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 bro	ken?	Yes 🗌	No ☑	# of preserved bottles checked							
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	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 wit	h this order?	Yes 🗌	No 🗆	NA 🗹							
Person Notified:	Date:		j								
By Whom:	Via:	eMail F	Phone 🔲 Fax	In Person							
Regarding:											
Client Instructions:	an and the state of the state o	and delete the second section of the second section of the second									
17. Additional remarks:											
18. Cooler Information											
Cooler No Temp C Condition	Seal Intact Seal No	Seal Date	Signed By 5.4								
1 2.6 Good Y	es			- <u> </u>	- <u>-</u>						

Cł	nain-d	of-Cus	tody Record	Turn-Around Time.				HALL ENVIRONMENTAL													
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	Rush _	24 HR.				٠.									ATO		
	 			Project Name				÷	9 . 5° 								.com		110		•
Mailing Ad	ldress:	P.O. BO	K 87	1	GCU #265	5E		49	01 H								1M 8		9		
		BLOOM	FIELD, NM 87413	Project #:			•)5-3				•		-	-410		_		
Phone #:		(505) 63	2-1199	1			دمني پينوه	***	1	2538						ques				17.1	
email or Fa	ax#:			Project Manag	ger:				711		_			~				ਜ			T
QA/QC Pad Standa	_		Level 4 (Full Validation)		JEFF BLAG	G	48's, (8021B)	TPH (Gas only)	WIRE)			(S)		04,50	PCB's			er - 300.1)			a)
Accreditati	on:			Sampler:	NELSON VI	ELEZ MIC	186	(Gas	DRO /	1)	1)	8270SIMS)		102	8082			/ water	ļ	7	Ē
□ NELAP		□ Other		On ice:	r√Yes		₩.	표	_	418.1)	504	327(03,N	_		ह्र	00.0		000	e Sa
□ EDD (T	ype)			Sample Temp	érature : 2	16.32	l L	+	(GRO	po	pot	or	etals	Ž	cide	Æ	- - -	ji - 3	ي ا	غ ا بنائج) SSIT
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 13/0E45	BTEX +-MITE	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /	Grah camr	Grab sample	S pt. composite sample
10/29/13	1335	SOIL	NW -NSW @ 17' (2)	4 oz 1	Cool	-001	V		٧										V		\top
					1420 31															T	十
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Date; /	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	nark	Ļ	TDL	1 /8	015	R) - 1	GRO	2	DRC					
0/30/13	1607	H.	la V J				Remarks: TPH (8015B) - GRO & DRO ONLY. Send invoice to: Blagg Engineering, Inc.														
Date:	Date: Time: Relinquished by:				Received by: Date Time						P.C	D. Bo	ngirii x 87 field,								
100/13	130/13/172/11 molestre 12 celon			e subcontracted to/other accredited laboratories. This serves as notice of					itv. A	nv sub	-contr	acted	data v	vili be	clearly	/ notai	ed on	the an	alvtical r	eport.	