District I 1525 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

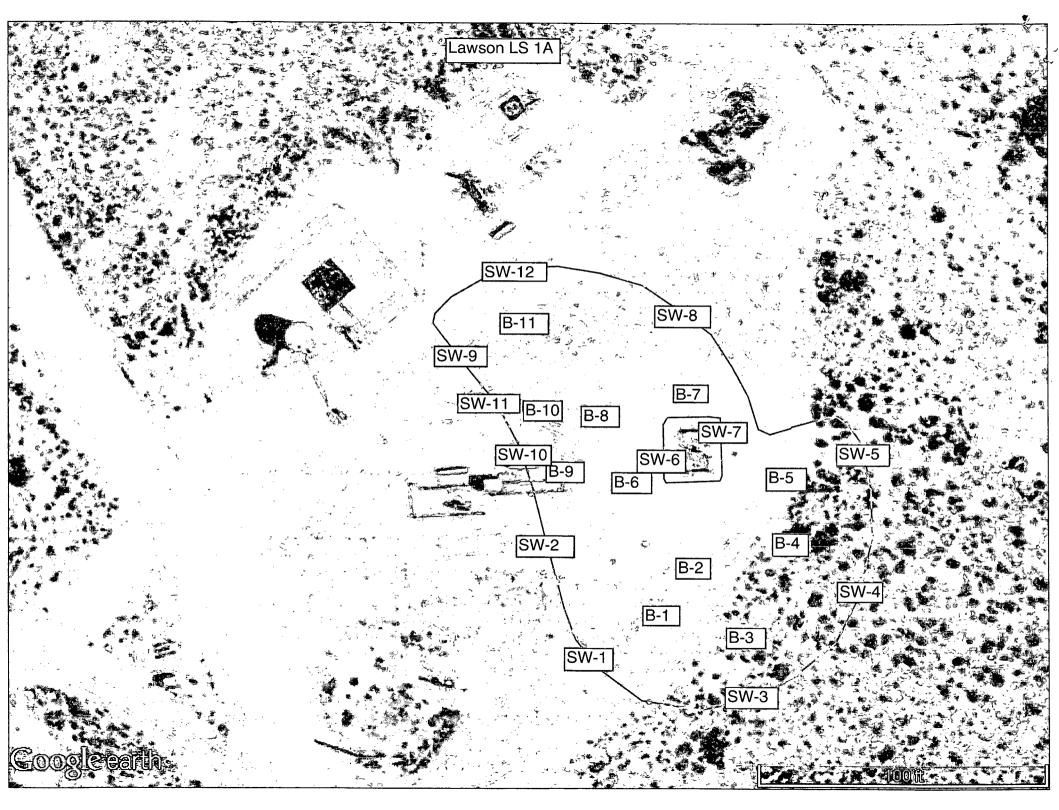
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Kele	ease Notifi	catioi	n and Co	orrective A	ction	1			
						OPERA'			Initi	al Report		Final Repo
Name of Co						Contact: Jef						
		Court, Farm	ington, N	M 87401			No.: 505-326-94					
Facility Na	ne: Lawso	on LS IA				Facility Typ	e: Natural gas v	vell		 		
Surface Ow	ner: BLM			Mineral (Owner:	Federal			API No	o. 3004522	513	
				LOC	ATIO	N OF REI	LEASE					
Unit Letter J	Section 11	Township 31N	Range 11W	Feet from the 1700	North/ South	South Line	Feet from the 1450	East/ East	West Line	County: S	an Juan	1
		Lat	itude3	6.91056			e 107.95613					
				NA]	TURE	OF RELI						
Type of Rele	ase: conden	sate/oil	C1 .1	uring trenching f	r		Release: unknow					
compressor r	eplacement	- source unkr		uring trenching i		unknown	lour of Occurrenc	e: 	2013	Hour of Dis	covery:	: July 11,
Was Immedia	ate Notice (Yes [No ⊠ Not R	equired	If YES, To	Whom?					
By Whom?						Date and F						
Was a Water	course Reac		Yes ⊠	No		If YES, Vo	olume Impacting t	he Wat	ercourse. OIL	. CONS. D)IV DI	ST. 3
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	:						ALIC 9	9 201/	1
										AUU Z	J 201	T
Describe Cau was found 15	se of Proble ' to 20' bel	em and Remedow the surface	dial Action	Taken.* During	g compre	ssor replacem	nent operations im	pacted	soil was dis	scovered. S	andston	ne bedrock
			-									
cubic yards o	f impacted:	soil was taken	to IEI lan	dfarm for treatm	ent. Soil	l samples wer		zed for				
regulations al public health should their cor the environ	I operators or the envir perations h nment. In a	are required to comment. The ave failed to a	o report an acceptance dequately OCD accep	d/or file certain reports of a C-141 reports and r	elease no ort by the emediate	otifications ar NMOCD ma contamination	nd perform correct arked as "Final Roon that pose a threet the operator of rectangles."	tive act eport" d eat to gr espons	ions for rele loes not reli ound water ibility for co	eases which leve the ope surface wa ompliance v	may en rator of ater, hur vith any	idanger Tiability nan health
Signature:	leff	Peace	_				OIL CONS	<u>SERV</u>	ATION	DIVISIO	<u>)N</u>	
Printed Name	Jeff Peace					Approved by	Environmental Sp	pecialis	Grat	H).	Kell	1
Title: Field E	nvironment	al Advisor				Approval Dat	e: 11/12/20	14	Expiration 1	Date:		
E-mail Addre	ss: peace.je	ffrey@bp.cor	n		(Conditions of	`Approval:	•		Attached		
Date: Novem				e: 505-326-9479								
Attach Addit	tional Shee	ets If Necess	ary				MJKI	431	6523	21		

CLIENT: BP	BLAGG ENGI P.O. BOX 87, BLOG (505) 6			API#: 30-045-, TANK ID (if applicble):	22513
FIELD REPORT:	(eirch one): BGT CONFIRMATION RELE HISTORICAL RELEASE	_		PAGE#: 1	of
SITE INFORMATION:	SITENAME LAWSON	LS 1A		DATE STARTED: 7/1	1 /2013
QUAD/UNIT: $\mathcal J$ SEC: // TWP: $\mathcal J$	BIN RNG: 11W PM: N/	4 CNTY: SJ	ST: NM	DATE FINISHED: 8/23	/2013
1/4 -1/4/FOOTAGE:	LEASE TYPE: (FEDERAL/ STATE /	FEE / INDIAN	ENVIRONMENTAL	
LEASE#: PF	ROD FORMATION: CONTRA	ACTOR: PAR & SUM	(DECKER)	SPECIALIST(S):	CB
REFERENCE POINT:	WELL HEAD (W.H.) GPS COOF	80: 36.91053	×107.9560	3 GLELEV.: 5	890
1)	GPS COORD.:		DISTANCE/BEA	ARING FROM W.H.:	
2)	GPS COORD.:		DISTANCE/BEA	ARING FROM W.H.:	
3)	GPS COORD.;		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.;	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB (useo: Au F	1ALL		OVM READING
1) SAMPLEID: SEE ATTACHE	SAMPLE DATE:	SAMPLE TIME:	AB ANALYSIS:		(ppm)
2) SAMPLEID:					
3) SAMPLEID:	. SAMPLE DATE:				
4) SAMPLE ID:		SAMPLE TIME: 1			
SOIL DESCRIPTION:	i i i i i i i i i i i i i i i i i i i				105-1-1
SOIL DESCRIPTION.	SOIL TYPE: SAND (SILTY SAND	TSILIA SILIY CLAY / CI	LAY / GRAVEL /.OTF	ier <u>bedeut</u> see	10-12
MOISTURE DRY/SLIGHTLY MOIST/MOIST/WET SAMPLE TYPE: GRAB/COMPOSITE - # O DISCOLORATION/STAINING OBSERVED	FPTS. VALIOUS ES) NO EXPLANATION - IMPOR			NATION - <u>57/2026</u>	
ANY AREAS DISPLAYING WETNESS: YES (NO) E APPARENT EVIDENCE OF A RELEASE OBS ADDITIONAL COMMENTS: SOIL IMPACT DIMENSION ESTIMATION:	SERVED AND/OR OCCURRED (YES) NO BED ROCK SA	PPM TEH	Approved EXCAVATION ESTI	MATION (Cubic Yards): 5	5935
DEPTH TO GROUNDWATER: 83 NEA				TPH CLOSURESTD: 700	ppm
SITE SKETCH		PLOT PLAN direte	·	ALIB. GAS = PPI	
SEE	ATTACHED		w	MISCELL. NOT D:	163
	•		PO) #:	······································
·	•		PK PK		
	÷		PJ		
	•			mit date(s):	
		•	Tank		ter
	. ` .		10	ppm = parts per million BGT Sidewalls Visible: Y /	
	•			BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION (EDGECOMANDO - DELONDORANE D - NO OUE TIL	- Transfer access to	<u></u>	BGT Sidewalls Visible: Y /	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW	GRADE TANK LOCATION; SPD = SAMPLE POINT DES	IGNATION, R.W. = RETAINING W	1 WELLHOND,	gnetic declination: 10	
TOWEL NOTES	LL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB -	_ / /			
TRAVEL NOTES. CALLOUT: _		ONSITE: 7/11/20	115 - 8/23/	2013	

revised: 08/01/12

BEI1005E-5.SKF



BP America Prod Co

Lawson LS 1A:

(J) Sec 11 - T31N - R11W San Juan County, New Mexico

Summary Laboratory Test Data on Historical Release Remediation by Excavation

	Google									
Chain-of-Custody	Earth Map	Sample	Sample	Type	Depth	TPH (ppm)	Benzene	BTEX	Chloride	Comments
ID	DI	Date	Time			(GRO+DRO)	(ppm)	(ppm)	(ppm)	
West Base 5-pt at 12'	B-1	07/11/2013	1020	composite	12'	ND	ND	ND	36	On Dense Sandstone Bedrock
SW Sidewall 5-pt at 5'-10'	SW-1	07/11/2013	1030	composite	5'-10'	ND	ND	ND	31	
West Sidewall 5-pt at 5'-10'	SW-2	07/11/2013	1040	composite	5'-10'	ND	ND	ND	39	
East Center Base 5-pt at 12'	B-2	07/17/2013	1255	composite	12'	ND	ND	ND	33	On Dense Sandstone Bedrock
South Base 5-pt at 10'	B-3	07/23/2013	1109	composite	10'	ND	ND	ND	18	On Dense Sandstone Bedrock
South Sidewall 5-pt at 4'-8'	SW-3	07/23/2013	1115	composite	4'-8'	ND	ND	ND	60	
SE Sidewall 5-pt at 4'-8'	SW-4	07/24/2013	1345	composite	4'-8'	15	ND	ND	86	
SE Base 5-pt at 10'	B-4	07/24/2013	1355	composite	10'	40.4	ND	0.17	39	On Dense Sandstone Bedrock
East Sidewall 5-pt at 4'-8'	SW-5	07/26/2013	1500	composite	4'-8'	ND	ND	ND	67	
East Base 5-pt at 10'	B-5	07/26/2013	1510	composite	10'	12	ND	ND	ND	On Dense Sandstone Bedrock
Wellhead West Sidewall 5-pt at 4'-9'	SW-6	08/09/2013	1055	composite	4'-9'	ND	ND	ND	ND	
Wellhead West Base 5-pt at 12'	B-6	08/08/2013	1330	composite	12'	ND	0.061	0.25	ND	On Dense Sandstone Bedrock
Wellhead NE Base 3-pt at 12'	B-7	08/12/2013	1430	composite	12'	ND	0.14	0.44	ND	On Dense Sandstone Bedrock
Wellhead NE Sidewall 3-pt at 4'-9'	SW-7	08/12/2013	1440	composite	4'-9'	ND	ND	ND	ND	
Wellhead N Sidewall 3-pt at 4'-9'	SW-8	08/13/2013	1208	composite	4'-9'	10	ND	0.13	ND	
NW Base 5-pt at 12'	B-8	08/15/2013	1120	composite	12'	41.5	ND	0.57	ND	On Dense Sandstone Bedrock
NW Sidewall 5-pt at 4'-10'	SW-9	08/15/2013	1502	composite	4'-10'	16	ND	ND	ND	
Meter Base 3-pt	B-9	08/16/2013	1215	composite	11'	21.2	ND	0.57	ND	On Dense Sandstone Bedrock
Meter Sidewall 3-pt at 4'-9'	SW-10	08/16/2013	1220	composite	4'-9'	ND	ND	ND	ND	
Meter North Base 5-pt at 10'	B-10	08/19/2013	1125	composite	10'	242	ND	4.54	ND	On Dense Sandstone Bedrock
Meter North Sidewall 5-pt at 4'-9'	SW-11	08/19/2013	1130	composite	4'-9'	ND	ND	ND	53	
NW Corner Base 5-pt at 12'	B-11	08/23/2013	1130	composite	12'	443	0.27	29.7	ND	On Dense Sandstone Bedrock
NW Corner Sidewall 5-pt at 4'-9'	SW-12	08/23/2013	1145	composite	4'-9'	ND	ND	ND	32	

Lab Order 1307546

Date Reported: 7/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Base 5-pt@12'

Project: Lawson LS 1A

Collection Date: 7/11/2013 10:20:00 AM

Lab ID: 1307546-001

Matrix: MEOH (SOIL) Received Date: 7/12/2013 10:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/12/2013 1:06:24 PM	8339
Surr: DNOP	93.2	63-147	%REC	1	7/12/2013 1:06:24 PM	8339
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2013 11:53:13 AM	/ R11895
Surr: BFB	96.1	80-120	%REC	1	7/12/2013 11:53:13 AN	/ R11895
EPA METHOD 8021B: VOLATILES	•				Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	7/12/2013 11:53:13 AM	/ R11895
Toluene	ND	0.050	mg/Kg (1	7/12/2013 11:53:13 AN	1 R11895
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2013 11:53:13 AN	1 R11895
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2013 11:53:13 AN	1 R11895
Surr: 4-Bromofluorobenzene	99.0	80-120	%REC	1	7/12/2013 11:53:13 AN	1 R11895
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	36	30	mg/Kg	20	7/12/2013 12:45:00 PN	1 8346

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

- 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 1307546

Date Reported: 7/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SW Sidewall 5-pt @ 5'-10'

Project: Lawson LS 1A Collection Date: 7/11/2013 10:30:00 AM

Lab ID: 1307546-002

Matrix: MEOH (SOIL) Received Date: 7/12/2013 10:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			·	Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/12/2013 1:28:12 PM	8339
Surr: DNOP	85.0	63-147	%REC	1	7/12/2013 1:28:12 PM	8339
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2013 12:21:51 PM	1 R11895
Surr: BFB	96.3	80-120	%REC	1	7/12/2013 12:21:51 PM	R11895
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.050	mg/Kg	1	7/12/2013 12:21:51 PM	R11895
Toluene	ND	0.050	mg/Kg	1	7/12/2013 12:21:51 PM	R11895
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2013 12:21:51 PM	R11895
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2013 12:21:51 PM	R11895
Surr: 4-Bromofluorobenzene	99.2	80-120	%REC	1	7/12/2013 12:21:51 PM	R11895
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	31	30	mg/Kg	20	7/12/2013 12:57:25 PM	8346

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- О RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 8

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

P

Lab Order 1307546

Date Reported: 7/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Sidewall 5-pt@ 5'-10'

Project: Lawson LS 1A Collection Date:

Collection Date: 7/11/2013 10:40:00 AM

Lab ID: 1307546-003 **Matrix:** MEOH (SOIL)

Received Date: 7/12/2013 10:03:00 AM

Result	RL Qu	al Units	DF	Date Analyzed	Batch
ORGANICS				Analys	t: JME
ND	9.9	mg/Kg	1	7/12/2013 1:49:57 PM	8339
85.8	63-147	%REC	1	7/12/2013 1:49:57 PM	8339
NGE				Analyst	t: NSB
ND	5.0	mg/Kg	1	7/12/2013 12:50:31 PM	1 R11895
96.6	80-120	%REC	1	7/12/2013 12:50:31 PM	1 R11895
				Analyst	t: NSB
ND	0.050	mg/Kg	1	7/12/2013 12:50:31 PM	R11895
ND	0.050	mg/Kg	1	7/12/2013 12:50:31 PM	R11895
ND	0.050	mg/Kg	1	7/12/2013 12:50:31 PM	R11895
ND	0.10	mg/Kg	1	7/12/2013 12:50:31 PM	R11895
99.3	80-120	%REC	1	7/12/2013 12:50:31 PM	R11895
				Analyst	:: JRR
39	30	mg/Kg	20	7/12/2013 1:09:50 PM	8346
	ND 85.8 NGE ND 96.6 ND ND ND ND ND ND 99.3	ND 9.9 85.8 63-147 NGE ND 5.0 96.6 80-120 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.10 99.3 80-120	ND 9.9 mg/Kg 85.8 63-147 %REC NGE ND 5.0 mg/Kg 96.6 80-120 %REC ND 0.050 mg/Kg ND 0.10 mg/Kg 99.3 80-120 %REC	ND 9.9 mg/Kg 1 85.8 63-147 %REC 1 NGE ND 5.0 mg/Kg 1 96.6 80-120 %REC 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.10 mg/Kg 1	Ralys ND 9.9 mg/Kg 1 7/12/2013 1:49:57 PM 85.8 63-147 %REC 1 7/12/2013 1:49:57 PM NGE ND 5.0 mg/Kg 1 7/12/2013 12:50:31 PM 96.6 80-120 %REC 1 7/12/2013 12:50:31 PM ND 0.050 mg/Kg 1 7/12/2013 12:50:31 PM ND 0.10 mg/Kg 1 7/12/2013 12:50:31 PM ND 0.10 mg/Kg 1 7/12/2013 12:50:31 PM ND 0.10 mg/Kg 1 7/12/2013 12:50:31 PM P99.3 80-120 %REC 1 7/12/2013 12:50:31 PM Analysi

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

- 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.

WO#:

1307546 16-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8346

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 8346

PQL

RunNo: 11931

Prep Date: 7/12/2013

Analysis Date: 7/12/2013

Result

SeqNo: 339252

Units: mg/Kg

HighLimit

Analyte

%REC LowLimit

%RPD

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-8346

LCSS

SampType: LCS Batch ID: 8346 TestCode: EPA Method 300.0: Anions RunNo: 11931

Prep Date: 7/12/2013

Analysis Date: 7/12/2013

SeqNo: 339253

Units: mg/Kg

110

Analyte Chloride

Client ID:

PQL

1.5

99.3

%REC

HighLimit

%RPD **RPDLimit**

Qual

Sample ID 1307497-001AMS

SampType: MS

Result

15

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC**

Batch ID: 8346

Result

Result

38

RunNo: 11931

SeqNo: 339256

58.8

90

LowLimit

Units: mg/Kg

109

Analyte

Client ID:

Prep Date:

Prep Date:

7/12/2013

Analysis Date: 7/12/2013 **PQL**

1.5

SPK value SPK Ref Val %REC LowLimit

68.8

HighLimit

RPDLimit

Qual

Qual

Chloride

SampType: MSD

TestCode: EPA Method 300.0: Anions

15.00

15.00

RunNo: 11931

Analyte

BatchQC 7/12/2013

Sample ID 1307497-001AMSD

Batch ID: 8346 Analysis Date: 7/12/2013

SeqNo: 339257

Units: mg/Kg

RPDLimit 20

Chloride

PQL

1.5

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val

15.00

28.09

28.09

%REC 65.2

LowLimit 58.8 HighLimit 109 %RPD 1.41

%RPD

Qualifiers:

0

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits j
- 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. р Reporting Detection Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307546

16-Jul-13

Client:

Blagg Engineering

Project:	Lawson I	LS 1A	_								
Sample ID	MB-8339	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 83	39	F	RunNo: 1	1878				
Prep Date:	7/12/2013	Analysis Da	ate: 7	/12/2013		SeqNo: 3	37805	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	ND	10								
Surr: DNOP		7.9		10.00		79.3	63	147	-4.4		и,
Sample ID	LCS-8339	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 83	39	F	RunNo: 1	1878				
Prep Date:	7/12/2013	Analysis Da	ate: 7/	12/2013	S	SeqNo: 3	37806	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	46	10	50.00	0	92.1	77.1	128			
Surr: DNOP		4.6		5.000		92.4	63	147			
Sample ID.	1307373-001AMS	SampTy	ре: М	3	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	BatchQC	Batch	ID: 83	10	F	RunNo: 1	1878				
Prep Date:	7/10/2013	Analysis Da	ite: 7/	12/2013	9	SeqNo: 3	37949	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.2		4.990		83.2	63	147			
Sample ID '	1307373-001AMSE) SampTy	ре: М	SD	Tes	tCode: E	PA Method	8015D: Dies	el Range C	 Organics	
Client ID:	BatchQC	Batch	ID: 83	10	F	RunNo: 1	1878				
Prep Date:	7/10/2013	Analysis Da	ite: 7/	12/2013	S	SeqNo: 3	37950	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.1		5.010		82.4	63	147	0	0	
Sample ID I	MB-8360	SampTy	pe: ME	BLK	Tes	Code: EF	PA Method	8015D: Diese	el Range C	rganics	
Client ID: F	PBS	Batch	ID: 83	60	R	tunNo: 1	1922				
Prep Date:	7/12/2013	Analysis Da	te: 7 /	15/2013	S	SeqNo: 33	39236	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		7.9		10.00		79.5	63	147			
Sample ID L	_CS-8360	SampTy	pe: LC	S	Tes	Code: EF	PA Method	8015D: Diese	el Range C	rganics	i
Client ID: L	css	Batch	iD: 83	60	R	tunNo: 1 1	1922				
Prep Date:	7/12/2013	Analysis Da	te: 7 /	15/2013	S	SeqNo: 33	39237	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- 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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307546

16-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID 13	307375-001AMS	SampT	/pe: MS	3	Test	tCode: El	PA Method	8015D: Diese	el Range (Organics	
Client ID: Ba	atchQC	Batch	ID: 83	39	R	RunNo: 1	1922 ⁻				
Prep Date: 7	7/12/2013	Analysis Da	ate: 7/	15/2013	S	39248	Units: mg/k	ζg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	anics (DRO)	45	10	50.05	12.78	63.6	61.3	138			
Surr: DNOP		3.8		5.005		75.5	63	147			

Sample ID 1307375-001AMSI	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID: BatchQC	Batch	ID: 83	39	F	RunNo: 1	1922				
Prep Date: 7/12/2013	Analysis D	ate: 7/	15/2013	S	SeqNo: 3	39249	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.10	12.78	73.6	61.3	138	10.8	20	
Surr: DNOP	4.5		5.010		89.3	63	147	0	0	

Sample ID MB-8347	SampT	ype: MI	BLK	Tes	tCode: E l	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	F	RunNo: 1	1922							
Prep Date: 7/12/2013	Analysis D	ate: 7/	15/2013	S	SeqNo: 3	39456	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		85.7	63	147			

Sample ID LCS-8347	SampType: LCS			Tes	el Range (Organics				
Client ID: LCSS	Batcl	h ID: 83	47	F	RunNo: 1	1922				
Prep Date: 7/12/2013	Analysis D)ate: 7	/15/2013	SeqNo: 339457			Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.9	63	147			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD 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 6 of 8 Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307546

16-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8329	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	•
Client ID: PBS	Batc	h ID: R1	1895	F	RunNo: 1	1895				
Prep Date: 7/11/2013	Analysis [Date: 7 /	12/2013	5	SeqNo: 3	38438	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	930		1000		93.3	80	120			

Sample ID LCS-8329 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R11895 RunNo: 11895 Prep Date: 7/11/2013 Analysis Date: 7/12/2013 SeqNo: 338439 Units: mg/Kg Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 96.9 62.6 136 Surr: BFB 1000 1000 105 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

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#: 1307546

16-Jul-13

Client:

Blagg Engineering

Project: Lawson LS 1A

Sample ID MB-8329

SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS RunNo: 11895 Batch ID: R11895

Prep Date: 7/11/2013 Analysis Date: 7/12/2013 SeqNo: 338457 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050

ND Toluene 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

80 0.97 1.000 96.7 120 Surr: 4-Bromofluorobenzene

Sample ID LCS-8329 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: R11895 RunNo: 11895

Prep Date: 7/11/2013 Analysis Date: 7/12/2013 SeqNo: 338458 Units: mg/Kg

%REC HighLimit Analyte Result **PQL** SPK value SPK Ref Val LowLimit %RPD **RPDLimit** Qual 0.93 0.050 1.000 0 92.7 80 120 Benzene Toluene 0.92 0.050 1.000 0 92.1 80 120 Ethylbenzene 0.91 0.050 1.000 0 90.8 80 120 0 Xylenes, Total 2.7 0.10 3.000 91.3 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 80 120

Sample ID 1307545-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: RunNo: 11895 **BatchQC** Batch ID: R11895

Prep Date: Analysis Date: 7/12/2013 SeaNo: 338460 Units: ma/Ka

1 Top Bate.	7 inalyolo L	Julio. 11	12/2010	`	50q.10. 0	00-100	Onico. Ingri	•9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.42	0.050	1.000	0	42.2	67.3	145			S	
Toluene	0.41	0.050	1.000	0	41.4	66.8	144			S	
Ethylbenzene	0.41	0.050	1.000	0	41.2	61.9	153			S	
Xylenes, Total	1.2	0.10	3.000	0	41.2	65.8	149			S	
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120				

Sample ID 1307545-001AMSD TestCode: EPA Method 8021B: Volatiles SampType:, MSD

Client ID: **BatchQC** Batch ID: R11895 RunNo: 11895

Prep Date: Analysis Date: 7/12/2013 SeqNo: 338461 Units: mg/Kg

'	•				•		_	_			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.67	0.050	1.000	0	66.9	67.3	145	45.1	20	SR	
Toluene	0.65	0.050	1.000	0	64.9	66.8	144	44.2	20	SR	
Ethylbenzene	0.65	0.050	1.000	0	64.7	61.9	153	44.4	20	R	
Xylenes, Total	2.0	0.10	3.000	0	65.0	65.8	149	44.9	20	SR	
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120	0	0		

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD 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. P

Reporting Detection Limit

Page 8 of 8



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 Num	ber: 1307546		RcptNo:	1
Received by/date:	07/12/17				
Logged By: Lindsay\M	angin 7/12/2013 10:03:00) AM	of hythers		
Completed By: Lindsay M	,	2 AM	Andy Allego		
Reviewed By:	07/12/13				
Chain of Custody	Octive).				
1. Custody seals intact on sa	ample bottles?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody comp	olete?	Yes 🗹	No 🗌	Not Present	
3. How was the sample deliv	/ered?	Courier			
<u>Log In</u>	•				
4. Was an attempt made to	cool the samples?	Yes 🗹	No 🗆	NA 🗆	·
5. Were all samples received	d at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) in proper conta	ainer(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume	for indicated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA	and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to	o bottles?	Yes 🗌	No 🗹	NA \square	•
10.VOA vials have zero head	Ispace?	Yes 🗌	No 🗆	No VOA Vials ☑	
11. Were any sample contain	•	Yes	No 🗹 [
		_		# of preserved bottles checked	
12. Does paperwork match be (Note discrepancies on ch		Yes 🔽	No 📙	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly idea	- ·	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses w		Yes 🗹	No 🗆		
15. Were all holding times abl (If no, notify customer for		Yes 🗹	No 🗆	Checked by:	
	,				
Special Handling (if app	<u>olicable)</u>				
16. Was client notified of all d	iscrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	7
Person Notified:	Date	e: [
By Whom:	Via:	eMail F	Phone 🔲 Fax	In Person	
Regarding:				Company Company	
Client Instructions:					
17. Additional remarks:					
18. Cooler Information Cooler No Temp °C 1 1.0	Condition Seal Intact Seal No Good Yes	Seal Date	Signed By		

Turn-Around Time: Chain-of-Custody Record By MONDAY 7-15-2013 HALL ENVIRONMENTAL Client: BLAGE ENGINEERING JUC. ⊠ Rush □ Standard **ANALYSIS LABORATORY** Project Name: www.hallenvironmental.com LAWSON LS 1A 4901 Hawkins NE - Albuquerque, NM 87109 Project #: BLOWFIELD NM 87413 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request Phone #: 505-632-1199 BTEX + MTBE + TPH (Gas only) Project Manager: Anions (F,CI,NO₃,NO₂,PO₄,SO₄) email or Fax#: + NEED + TEED'S (8021) 8081 Pesticides / 8082 PCB's QA/QC Package: SIMS) JEFF BLACE TPH 8015B (GRO / DRO Standard □ Level 4 (Full Validation) Sampler: JEFF BLACC Ontice: Yeshin Album Accreditation PAH's (8310 or 8270 TPH (Method 418.1) **EDB** (Method 504.1) or N □ NELAP □ Other 8270 (Semi-VOA) RCRA 8 Metals Sample Temoerature Storres 1703 □ EDD (Type) Air Bubbles (Y 8260B (VOA) AUTIE113 Preservative Container Sample Request ID Time Matrix Date BTEX Type and # Type Mert Kits WEST BASE 5- PE 402×1 X 1020 SOIL COOL 0.12 SW SIDEWALL S- DE u 11 1030 @ 5'-10' WEST SIDEWALL 5-PE u u 1040 Relinquished by: Date: Date Time Remarks: BILL BLAGG 13 1003 If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Lab Order 1307837

Date Reported: 7/22/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Center Base 5-pt @12'

Project: Lawson LS 1A

Collection Date: 7/17/2013 12:55:00 PM

Lab ID: 1307837-001

Matrix: SOIL Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		****		Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/19/2013 10:22:01 AM	8425
Surr: DNOP	93.1	63-147	%REC	1	7/19/2013 10:22:01 AM	8425
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2013 12:22:51 PM	8446
Surr: BFB	93.7	80-120	%REC	1	7/19/2013 12:22:51 PM	8446
EPA METHOD 8021B: VOLATILES					Analyst	: DAM
Benzene	ND	0.047	mg/Kg	1	7/19/2013 12:22:51 PM	8446
Toluene	ND	0.047	mg/Kg	1	7/19/2013 12:22:51 PM	8446
Ethylbenzene	ND	0.047	mg/Kg	1	7/19/2013 12:22:51 PM	8446
Xylenes, Total	ND	0.093	mg/Kg	1	7/19/2013 12:22:51 PM	8446
Surr: 4-Bromofluorobenzene	97.1	80-120	%REC	1	7/19/2013 12:22:51 PM	8446
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	33	1.5	mg/Kg	1	7/18/2013 1:40:47 PM	8455

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

P

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit О
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
 - Page 1 of 5 Sample pH greater than 2 for VOA and TOC only.
- RLReporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307837

22-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8455

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 8455

PQL

RunNo: 12061

%REC

Prep Date: 7/18/2013

Analysis Date: 7/18/2013

SeqNo: 342960

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-8455

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 8455

RunNo: 12061

Prep Date: 7/18/2013

LCSS

Analysis Date: 7/18/2013

SeqNo: 342961

Units: mg/Kg

Analyte

Client ID:

RPDLimit

Chloride

14

Result

Result

12

14

Result

SPK value SPK Ref Val **PQL**

15.00

15.00

%REC 92.2

LowLimit

HighLimit

Qual

Sample ID 1307687-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

%RPD 110

%RPD

Client ID:

BatchQC

Batch ID: 8455

RunNo: 12061

58.8

LowLimit

90

Prep Date:

7/18/2013

Analysis Date: 7/18/2013

1.5

PQL

1.5

SPK value SPK Ref Val

SPK value SPK Ref Val

SeqNo: 342964 %REC

89.8

Units: mg/Kg

HighLimit

109

RPDLimit Qual

Analyte Chloride

Client ID:

Prep Date:

Sample ID 1307687-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 12061

Qual

Analyte Chloride

7/18/2013

BatchQC

Batch ID: 8455 Analysis Date: 7/18/2013

SeqNo: 342965

Units: mg/Kg

RPDLimit

PQL 1.5

15.00

SPK value

0.7227

SPK Ref Val

0.7227

%REC 76.7

58.8

LowLimit

109

HighLimit

%RPD 15.0

20

Value above quantitation range Ε

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

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

Reporting Detection Limit

Qualifiers:

Value exceeds Maximum Contaminant Level.

RSD is greater than RSDlimit \mathbf{O}

Н Holding times for preparation or analysis exceeded

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

5.5

WO#: 1307837

22-Jul-13

Client:

Surr: DNOP

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8425	Sampl	Гуре: М І	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batcl	h ID: 84	25	F	RunNo: 1	2041				
Prep Date: 7/17/2013	Analysis E	Date: 7/	/18/2013	9	SeqNo: 3	42321	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	9.6		10.00		96.2	63	147			
Sample ID LCS-8425	SampT	Type: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range C	Organics	
Client ID: LCSS	Batch	n ID: 84	25	F	RunNo: 1	2041				
Prep Date: 7/17/2013	Analysis D	Date: 7/	18/2013	5	SeqNo: 3	42322	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.9	77 1	128			

110

63

147

5.000

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

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 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307837

22-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8446	Samp	уре: М Е	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batc	n ID: 84	46	F	RunNo: 1	2078				
Prep Date: 7/18/2013	Analysis [)ate: 7/	19/2013	S	SeqNo: 3	43370	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 930	5.0	1000		93.4	80	120			
Sample ID LCS-8446	Samp	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batc	n ID: 84	46	F	RunNo: 1	2078				
Prep Date: 7/18/2013	Analysis [ate: 7/	19/2013	9	SeqNo: 3	43371	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	62.6	136			
Surr: BFB	1000		1000		100	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

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 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307837

22-Jul-13

Client: Blagg Engineering
Project: Lawson LS 1A

Sample ID MB-8446	Sampl	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: 84	46	F	RunNo: 1:	2078				
Prep Date: 7/18/2013	Analysis D	Date: 7 /	19/2013	S	SeqNo: 3	43544	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	0.98		1.000		97.7	80	120			

Sample ID LCS-8446	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: 84	46	F	RunNo: 1	2078				
Prep Date: 7/18/2013	Analysis D	Date: 7/	19/2013	S	SeqNo: 3	43552	Units: mg/K	(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	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID 1307801-003AMS	SampT	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch	1D: 84	46	F	RunNo: 1	2078				
Prep Date: 7/18/2013	Analysis D	ate: 7/	19/2013	9	SeqNo: 3	43556	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.48	9.699	3.466	-0.238	67.3	145			S
Toluene	25	0.48	9.699	35.90	-108	66.8	144			S
Ethylbenzene	7.0	0.48	9.699	8.386	-14.7	61.9	153			S
Xylenes, Total	70	0.97	29.10	90.26	-70.9	65.8	149			S
Surr: 4-Bromofluorobenzene	12		9.699		121	80	120			S

Sample ID 1307801-003AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: 84	46	F	RunNo: 1	2078				
Prep Date: 7/18/2013	Analysis D	ate: 7/	19/2013	9	SeqNo: 3	43557	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.48	9.690	3.466	-1.12	67.3	145	2.51	20	S
Toluene	26	0.48	9.690	35.90	-98.4	66.8	144	3.52	20	S
Ethylbenzene	7.5	0.48	9.690	8.386	-9.42	61.9	153	7.13	20	S
Xylenes, Total	74	0.97	29.07	90.26	-56.3	65.8	149	5.95	20	S
Surr: 4-Bromofluorobenzene	12		9.690		126	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

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 5



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: 1307837 RcptNo: 1 Received by/date.< 7/18/2013 10:00:00 AM Logged By: **Ashley Gallegos** 7/18/2013 1Q:05:18 AM Completed By: **Ashley Gallegos** 06 (77/18/13 Reviewed By: Chain of Custody Yes No Not Present ✓ 1. Custody seals intact on sample bottles? No ! Not Present Yes V 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 📗 No i 4. Was an attempt made to cool the samples? Yes V No | NA : 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(s) in proper container(s)? Nο 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 8. Are samples (except VOA and ONG) properly preserved? No 🗸 NA 9. Was preservative added to bottles? Yes : : Yes No No VOA Vials 🗸 10.VOA vials have zero headspace? 11. Were any sample containers received broken? No 🗸 # of preserved bottles checked No i for pH: 12. Does paperwork match bottle labels? Yes ✓ (<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? Yes 🗸 No i i Checked by: 15. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes | No | 16. Was client notified of all discrepancies with this order? NA V Date: Person Notified: : eMail : Phone : Fax | In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date 1.0 Good

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Stan	dard		☐ Level 4 (Full Validation)	J-	BLACK I-BLACK			8) \$	9	DRO,			SIMS)		PO,	PCB'					}	
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		AL No.	BTEX + MT	BTEX + MT	TPH 8015B (GRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLORY			Air Rubblee
1/17/17	1253	SOIL		402 21	COOL		-051	X		X		_		<u> </u>	/	3	<u> </u>		X	\top	+	Ť
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1/11/13	11747	1 hr			400	8/13	1000		٥ ر								EAC		_			
ı	f necessary,	samples sub	mitted to Hall Environmental may be subo	contracted to other a	corredited laboratori	es. This serve	es as notice of this	possil	oility. A	Any su	b-conf	racte	d data	will be	clear	ly nota	ited or	the a	nalytical	report.		

Lab Order 1307A77

Date Reported: 7/26/2013

7/24/2013 3:48:32 PM

7/24/2013 3:48:32 PM

R12152

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Diesel Range Organics (DRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Client Sample ID: South Base 5-pt @ 10'

1

Project: Lawson LS 1A Collection Date: 7/23/2013 11:09:00 AM

1307A77-001 Lab ID:

Surr: DNOP

Surr: BFB

Benzene

Toluene

Analyses

Matrix: MEOH (SOIL) Received Date: 7/24/2013 10:00:00 AM

Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME 7/24/2013 10:24:29 PM 8492 ND 10 mg/Kg 1 135 63-147 %REC 1 7/24/2013 10:24:29 PM 8492 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: DAM ND 7/24/2013 3:48:32 PM 5.0 mg/Kg R12152 92.2 80-120 %REC 7/24/2013 3:48:32 PM R12152 Analyst: DAM

mg/Kg

mg/Kg

Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2013 3:48:32 PM	R12152
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2013 3:48:32 PM	R12152
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	7/24/2013 3:48:32 PM	R12152
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	18	1.5	mg/Kg	1	7/24/2013 7:31:27 PM	8548

0.050

0.050

ND

ND

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
- RSD is greater than RSDlimit 0
- R RPD 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 1 of 6
- Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit RL

Lab Order 1307A77

Date Reported: 7/26/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Sidewall 5-pt @ 4'-8'

Project: Lawson LS 1A

Collection Date: 7/23/2013 11:15:00 AM

Lab ID: 1307A77-002

Matrix: MEOH (SOIL) Received Date: 7/24/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/24/2013 10:54:39 PM	8492
Surr: DNOP	122	63-147	%REC	1	7/24/2013 10:54:39 PM	8492
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	:: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2013 2:17:38 PM	R12152
Surr: BFB	87.1	80-120	%REC	1	7/24/2013 2:17:38 PM	R12152
EPA METHOD 8021B: VOLATILES					Analyst	DAM
Benzene	ND	0.050	mg/Kg	1	7/24/2013 2:17:38 PM	R12152
Toluene	ND	0.050	mg/Kg	1	7/24/2013 2:17:38 PM	R12152
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2013 2:17:38 PM	R12152
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2013 2:17:38 PM	R12152
Surr: 4-Bromofluorobenzene	92.6	80-120	%REC	1	7/24/2013 2:17:38 PM	R12152
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	60	30	mg/Kg	20	7/24/2013 8:08:41 PM	8548

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

- 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 6

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

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307A77

26-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8548

Prep Date: 7/24/2013

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

LowLimit

Client ID: **PBS**

Batch ID: 8548

RunNo: 12182

Analysis Date: 7/24/2013

SeqNo: 346530

%REC

Units: mg/Kg

HighLimit

%RPD

%RPD

%RPD

%RPD

1.57

RPDLimit

Qual

Analyte Chloride

PQL ND 1.5

Sample ID LCS-8548

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 8548

RunNo: 12182

Prep Date: 7/24/2013

Analysis Date: 7/24/2013

SeqNo: 346531

Units: mg/Kg

Analyte Chloride

PQL

1.5

%REC

HighLimit

110

RPDLimit

Qual

Sample ID 1307919-001AMS

SampType: MS

Result

Result

Result

43

15

TestCode: EPA Method 300.0: Anions

97.0

Client ID:

BatchQC

Batch ID: 8548

RunNo: 12182

HighLimit

Prep Date:

7/24/2013

Analysis Date: 7/24/2013

SeqNo: 346533

25.91

25.91

SPK value SPK Ref Val

15.00

15.00

15.00

58.8

58.8

LowLimit

90

Units: mg/Kg

109

RPDLimit Qual

Analyte Chloride

Sample ID 1307919-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

%REC

Batch ID: 8548

1.5

PQL

1.5

RunNo: 12182

Client ID:

BatchQC Prep Date: 7/24/2013

Analysis Date: 7/24/2013

%REC

113

Units: mg/Kg

Analyte Chloride

SeqNo: 346534

HighLimit

PQL

LowLimit

109

RPDLimit Qual

20

S

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

RSD is greater than RSDlimit

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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307A77

26-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8492	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics			
Client ID: PBS	Batch	iD: 84 !	92	R	tunNo: 1	2141						
Prep Date: 7/22/2013	Analysis D	ate: 7/	24/2013	S	SeqNo: 3	45745	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	13		10.00		127	63	147					

Sample ID LCS-8492	Sampi	ype: LC	.5	res	(Code: E	PA Method	8015D: Dies	ei Range (Jrganics	
Client ID: LCSS	Batch	iD: 84	92	F	RunNo: 1	2141				
Prep Date: 7/22/2013	Analysis D	ate: 7/	24/2013	S	SeqNo: 3	45791	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	77.1	128			
Surr: DNOP	5.6		5,000		112	63	147			

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

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 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307A77

26-Jul-13

Client: Project: Blagg Engineering

Sample ID B

Lawson LS 1A

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R12152

RunNo: 12152

%REC

SegNo: 346278

Units: mg/Kg

Prep Date: Analyte

Analysis Date: 7/24/2013 PQL

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

Result

880

ND 5.0

1000

1000

1000

SPK value SPK Ref Val

SPK value SPK Ref Val

88.1

80

80

LowLimit

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID: LCSS

Batch ID: R12152

RunNo: 12152

120

Prep Date:

SeqNo: 346279

Units: mg/Kg

Analyte

Analysis Date: 7/24/2013

Gasoline Range Organics (GRO)

Result PQL SPK value SPK Ref Val 25 5.0 25.00

%REC 100 98.7

LowLimit HighLimit 62.6 136 **RPDLimit** Qual

Surr: BFB

Sample ID LCS-8488 SampType: LCS

120 TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

Prep Date: 7/22/2013

Batch ID: 8488

Result

960

990

Analysis Date: 7/24/2013

RunNo: 12152 SeqNo: 346280

Units: %REC

HighLimit

120

%RPD

RPDLimit Qual

Analyte Surr: BFB

SampType: MS

96.4

%REC

TestCode: EPA Method 8015D: Gasoline Range

80

Client ID:

BatchQC

Sample ID 1307A76-001AMS

Batch ID: R12152

POL

RunNo: 12152

Prep Date:

Analysis Date: 7/24/2013

SeqNo: 346281

Units: mg/Kg

Analyte

Result PQL

LowLimit

Gasoline Range Organics (GRO)

22

SPK value SPK Ref Val

%REC

LowLimit

HighLimit

%RPD

Qual

Qual

Surr: BFB

970

5.0 25.00 1000 n 87.9 97.0

76 80

156 120 **RPDLimit**

Sample ID 1307A76-001AMSD

BatchQC

Gasoline Range Organics (GRO)

SampType: MSD

Batch ID: R12152

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range

156

120

0

Page 5 of 6

Prep Date: Analyte

Surr: BFB

Client ID:

Analysis Date: 7/24/2013

Result

21

940

SPK value SPK Ref Val

0

25.00

1000

RunNo: 12152 SeqNo: 346282 %REC

83.4

93.8

LowLimit

76

80

Units: mg/Kg HighLimit

%RPD

5.18

0

RPDLimit 17.7

0

- Qualifiers: Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range

RSD is greater than RSDlimit

Analyte detected below quantitation limits J

RPD outside accepted recovery limits

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307A77

26-Jul-13

Client:	Blagg Engineering
Project:	Lawson LS 1A

Sample ID B	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch	Batch ID: R12152			RunNo: 1:	2152				
Prep Date:	Analysis Date: 7/24/2013			S	SeqNo: 3	46288	Units: mg/K	(g		
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	1.0		1.000		99.8	80	120			

Sample ID 100NG BTEX LC	S Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	:h ID: R1	2152	F	RunNo: 1	2152				
Prep Date:	Analysis	Date: 7 /	24/2013	5	SeqNo: 3	46289	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.5	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 1307A77-001AM	I S Samp	Гуре: М	3	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID: South Base 5-p	t @ Batcl	h ID: R1	2152	F	RunNo: 1	2152							
Prep Date:	Analysis [Date: 7/	24/2013	S	SeqNo: 3	46290	Units: mg/F	g/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.93	0.050	1.000	0.01739	91.6	67.3	145						
Toluene	0.93	0.050	1.000	0.01870	91.2	66.8	144						
Ethylbenzene	0.94	0.050	1.000	0.01739	92.3	61.9	153						
Xylenes, Total	2.9	0.10	3.000	0.09425	94.0	65.8	149						
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120						

Sample ID 1307A77-001AM	SD Sampi	ype: MS	SD .	les	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: South Base 5-pt	: @ Batch	1 ID: R1	2152	F	RunNo: 1	2152				
Prep Date:	Analysis D	ate: 7/	24/2013	5	SeqNo: 3	46291	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0.01739	89.8	67.3	145	1.88	20	
Toluene	0.91	0.050	1.000	0.01870	89.2	66.8	144	2.17	20	
Ethylbenzene	0.93	0.050	1.000	0.01739	90.9	61.9	153	1.50	20	
Xylenes, Total	2.9	0.10	3.000	0.09425	93.6	65.8	149	0.433	20	
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120	0	0	

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

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 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: BI AGG Work Order Number: 1307A77 RcptNo: 1 Received by/date: Michelle Garrier Logged By: Michelle Garcia 7/24/2013 10:00:00 AM Michelle Garcia Completed By: 7/24/2013 10:25:53 AM Reviewed By: IO Chain of Custody No \square Not Present ▼ Yes 🗌 1. Custody seals intact on sample bottles? No 🗆 Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes 🗸 No 🗌 NA 🗍 4. Was an attempt made to cool the samples? No I NA 🗍 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No \square 6. Sample(s) in proper container(s)? Yes 🛂 No 🗀 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 8. Are samples (except VOA and ONG) properly preserved? Yes NA 🖂 No 9. Was preservative added to bottles? No [.] No VOA Vials Yes 🗍 10.VOA vials have zero headspace? No 🗹 11. Were any sample containers received broken? Yes # of preserved bottles checked for pH: Yes 🗸 No \square 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14. Is it clear what analyses were requested? No 🗌 Yes 🗹 Checked by: 15. Were all holding times able to be met? (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: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Condition | Seal Intact | Seal No | Seal Date Cooler No Temp °C Good

	hain	-of-Cu	stody Record	Turn-Around	Time:	By Thursday 7-25-2013					.		nix.	et e	> ~				
Client:	BLA	66 EN	IGWEERUG INC.	☐ Standard	⋉ Rush	(-25-2013												ATV IOT	
		AMER		Project Name	e:						ww.ha							. •.	
Mailing	Address	: P ₋₀ .	B0×87	<u> </u>	WSON L	S 1A		490)1 Ha	w awkins							109		
			NM 87413	Project #:				Te	1. 50	5-345	3975	j	Fax	505-	345-	-4 10	7		
Phone			632-1199															. 19 T. A.	
email o				Project Mana	ger:			_					1						
QA/QC	Package: dard		☐ Level 4 (Full Validation)	J.	BLAGG		TMB's (8021)	Gas on	(1)		IMS)		204,SC	PCB's					
Accredi	tation		r	Sampler:	J- BLAG	L ENG		TPH (0 / DR	8.1)	8270 S		3,NO ₂ ,	/ 8082		7	,,\		Z
□ EDD	(Type)			Sample Len	erature.			띪	(GR	d 41	ō	tals	<u>N</u>	des		0	100		ء ح
Date	Time	Matrix	Sample Request ID	Container Type and #	Туре	HEATNO L	BTEX + MIBI	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO /44EQ)	TPH (Method 418.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHURNE		Air Bubbles (Y or N)
23/3	1109	SOIL	SOUTH BASE 5-Pt Q W	40221	C0026	H -001	X		X								X		
1(145	16	SOUTH BASE 5-Pt Q 10' SOUTH SIDENAIL 5-Pt C 4-8	10	١(-002	У		X	-							×	1-	
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									\neg									1	
Date: 7/23/3 Date:	Time: 1205 Time:	Relinquish	If Bly	Received by: Received by:	Wella-	Date Time	Rem	arks	: .	BU	c l	Zv	46)	6	.		1		1
1/23/13	1754	Cha	Tiltted to Hall Environmental may be subc	Y (*	5 0	1/24/13 1000				\mathcal{O}_{1}	<u> </u>		ree	((-	TEE	F F	EACE	<u>-</u>

Lab Order 1307C12

Date Reported: 7/31/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lab ID:

1307C12-001

Lawson LS 1A

Matrix: SOIL

Client Sample ID: SE Sidewall 5-pt @ 4'-8'

Collection Date: 7/24/2013 1:45:00 PM

Received Date: 7/26/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	15	10	mg/Kg	1	7/26/2013 2:15:51 PM	8571
Surr: DNOP	102	63-147	%REC	1	7/26/2013 2:15:51 PM	8571
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	86	30	mg/Kg	20	7/26/2013 1:47:15 PM	8576
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	: cws
Benzene	ND	0.050	mg/Kg	1	7/26/2013 4:01:07 PM	R12236
Toluene	ND	0.050	mg/Kg	1	7/26/2013 4:01:07 PM	R12236
Ethylbenzene	ND	0.050	mg/Kg	1	7/26/2013 4:01:07 PM	R12236
Xylenes, Total	ND	0.10	mg/Kg	1	7/26/2013 4:01:07 PM	R12236
Surr: 1,2-Dichloroethane-d4	97.2	70-130	%REC	1	7/26/2013 4:01:07 PM	R12236
Surr: 4-Bromofluorobenzene	84.5	70-130	%REC	1	7/26/2013 4:01:07 PM	R12236
Surr: Dibromofluoromethane	102	70-130	%REC	1	7/26/2013 4:01:07 PM	R12236
Surr: Toluene-d8	88.8	70-130	%REC	1	7/26/2013 4:01:07 PM	R12236
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	cws
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/26/2013 4:01:07 PM	R12236
Surr: BFB	84.5	70-130	%REC	1	7/26/2013 4:01:07 PM	R12236

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- RPD 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 1 of 6 Sample pH greater than 2 for VOA and TOC only.
- RLReporting Detection Limit

Lab Order 1307C12

Date Reported: 7/31/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SE Base 5-pt @ 10'

Lawson LS 1A Project:

Collection Date: 7/24/2013 1:55:00 PM

1307C12-002 Lab ID:

Received Date: 7/26/2013 10:10:00 AM

Analyses	Result	RL Qı	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS			- · ·	Analyst	:: JME
Diesel Range Organics (DRO)	34	10	mg/Kg	1	7/26/2013 2:37:42 PM	8571
Surr: DNOP	99.8	63-147	%REC	1	7/26/2013 2:37:42 PM	8571
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	39	30	mg/Kg	20	7/26/2013 1:59:39 PM	8576
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	:: cws
Benzene	ND	0.050	mg/Kg	1	7/26/2013 5:27:44 PM	R12236
Toluene	ND	0.050	mg/Kg	1	7/26/2013 5:27:44 PM	R12236
Ethylbenzene	ND	0.050	mg/Kg	1	7/26/2013 5:27:44 PM	R12236
Xylenes, Total	0.17	0.10	mg/Kg	1	7/26/2013 5:27:44 PM	R12236
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%REC	່ 1	7/26/2013 5:27:44 PM	R12236
Surr: 4-Bromofluorobenzene	82.9	70-130	%REC	1	7/26/2013 5:27:44 PM	R12236
Surr: Dibromofluoromethane	103	70-130	%REC	1	7/26/2013 5:27:44 PM	R12236
Surr: Toluene-d8	90.7	70-130	%REC	1	7/26/2013 5:27:44 PM	R12236
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: cws
Gasoline Range Organics (GRO)	6.4	5.0	mg/Kg	1	7/26/2013 5:27:44 PM	R12236
Surr: BFB	82.9	70-130	%REC	1	7/26/2013 5:27:44 PM	R12236

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.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD 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 Not Detected at the Reporting Limit Page 2 of 6 Sample pH greater than 2 for VOA and TOC only.
- P Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307C12 31-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8576

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 8576 Analysis Date: 7/26/2013

PQL

RunNo: 12237

%REC LowLimit

Prep Date: 7/26/2013

SeqNo: 348052

HighLimit

Units: mg/Kg

%RPD

RPDLimit Qual

Analyte Chloride

ND 1.5

Result

Sample ID LCS-8576

SampType: LCS

RunNo: 12237

Client ID: Prep Date: 7/26/2013

LCSS

Batch ID: 8576 Analysis Date: 7/26/2013

SeqNo: 348053

Units: mg/Kg

LowLimit

TestCode: EPA Method 300.0: Anions

%RPD **RPDLimit**

Qual

SPK value SPK Ref Val %REC **PQL**

SPK value SPK Ref Val

Chloride

Analyte

Result

14

1.5

15.00

96.6

110

HighLimit

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

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

Sample pH greater than 2 for VOA and TOC only.

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307C12

31-Jul-13

Client:

Blagg Engineering

Project: Lawson I	LS 1A								
Sample ID MB-8571	SampType:	MBLK	Tes	tCode: EP	A Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batch ID:	8571	F	RunNo: 12	209				
Prep Date: 7/25/2013	Analysis Date:	7/26/2013	S	SeqNo: 34	7324	Units: mg/k	(g		
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Surr: DNOP	10	10.00	,	99.9	63	147			
Sample ID LCS-8571	SampType:	LCS	Tes	tCode: EP	A Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch ID:	8571	F	RunNo: 12	209				
Prep Date: 7/25/2013	Analysis Date:	7/26/2013	8	SeqNo: 34	7332	Units: mg/k	(g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10 50.00	0	87.9	77.1	128			
Surr: DNOP	4.0	5.000		79.2	63	147			
Sample ID 1307B56-001AMS	SampType:	MS	Tes	tCode: EP	A Method	8015D: Dies	el Range C	Organics	***
Client ID: BatchQC	Batch ID:	8571	F	RunNo: 12	239				
Prep Date: 7/25/2013	Analysis Date:	7/29/2013	S	SeqNo: 34	8203	Units: mg/K	(g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10 50.40	0	93.2	61.3	138			
Surr: DNOP	4.0	5.040		78.6	63	147			
Sample ID 1307B56-001AMS	D SampType:	MSD	Tes	tCode: EP	A Method	8015D: Diese	el Range C	Organics	
Client ID: BatchQC	Batch ID:	8571	R	RunNo: 12	239				
Prep Date: 7/25/2013	Analysis Date:	7/29/2013	S	SeqNo: 34	8230	Units: mg/K	(g		
Analyte	Result PC		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		9.9 49.50	0	109	61.3	138	13.7	20	
Surr: DNOP	4.0	4.950		80.4	63	147	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307C12

31-Jul-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8541 MEOH	MB-8541 MEOH SampType: MBLK PBS Batch ID: R12236			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS				RunNo: 12236							
Prep Date: 7/24/2013	Analysis Date:		26/2013	SeqNo: 348787			Units: mg/Kg				
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: 1,2-Dichloroethane-d4	0.47		0.5000		94.3	70	130				
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.0	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130				
Surr: Toluene-d8	0.45		0.5000		90.3	70	130				

Sample ID LCS-8541 MEOH	SampType: LCS Batch ID: R12236 Analysis Date: 7/26/2013			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS				RunNo: 12236							
Prep Date: 7/24/2013				SeqNo: 348788			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.050	1.000	0	94.4	70	130				
Toluene	0.83	0.050	1.000	0	82.5	80	120				
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.6	70	130				
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.9	70	130				
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130				
Surr: Toluene-d8	0.45		0.5000		90.2	70	130				

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

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#:

1307C12

31-Jul-13

Qual

Qual

Client:

Prep Date:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID 1307c12-001ams

SampType: MS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: SE Sidewall 5-pt @

Batch ID: R12236

RunNo: 12236

Analysis Date: 7/26/2013

SPK value SPK Ref Val

2.117

26.20

524.1

Analyte

Result PQL SegNo: 348206

Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit Gasoline Range Organics (GRO) 28 5.0 2,117 100 58 26.20 Surr: BFB 400 76.6 70 524.1 130

Sample ID 1307c12-001amsd

SampType: MSD

TestCode: EPA Method 8015D Mod: Gasoline Range

%RPD

RPDLimit

0

RPDLimit

Client ID:

SE Sidewall 5-pt @

Batch ID: R12236

PQL

5.0

RunNo: 12236

Prep Date: Analyte

Surr: BFB

Analysis Date: 7/26/2013

Result

26

420

SeqNo: 348207

LowLimit

58

70

Units: mg/Kg

130

%RPD **RPDLimit** HighLimit Qual 134 8.73 20

%RPD

0

Sample ID 2.5 gro ics

Gasoline Range Organics (GRO)

SampType: LCS

%REC

91.4

80.3

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: R12236

RunNo: 12236

Units: mg/Kg

Prep Date:

Analysis Date: 7/26/2013

SeqNo: 348789

HighLimit

SPK Ref Val %REC Analyte Result **PQL** SPK value LowLimit 25 5.0 25.00 0 102

Gasoline Range Organics (GRO) Surr: BFB

450 500.0

80 89.9 70

120 130

Qualifiers:

R

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD 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

P

Page 6 of 6



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 Wo	rk Order Number: 1307	Ç12		RcptNo:	1
Received by/date:	1/20/13				
Logged By: Anne Thorne 7/26/2	2013 10:10:00 AM	ane,	A	_	
Completed By: Anne Thorne 7/26/2	2013	an	J		
Reviewed By:	7/2/0/13	3,174)			
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?	<u>Cou</u>	<u>ier</u>			
<u>Log In</u>					
4. Was an attempt made to cool the samples?	Yes	✓ No		NA 🗆	
5. Were all samples received at a temperature of >0	° C to 6.0°C Yes	✓ No		na 🗆	
6. Sample(s) in proper container(s)?	Yes	✓ No			
7. Sufficient sample volume for indicated test(s)?	Yes	☑ No			
8. Are samples (except VOA and ONG) properly pres	erved? Yes	✓ No			
9. Was preservative added to bottles?	Yes	☐ No	\checkmark	NA 🗆	
10.VOA vials have zero headspace?	Yes	☐ No		No VOA Vials ⊻	
11. Were any sample containers received broken?	Yes	□ No		# of preserved	
40.5		[d] 81-	\neg	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	✓ No	\sqcup	for pH:(<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custon	dy? 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:	
(in its, notify statistics for statistics,					
Special Handling (if applicable)					
16. Was client notified of all discrepancies with this ord	ler? Yes	□ No		NA 🗹	_
Person Notified:	Date				
By Whom:	Via: ☐ eMa	ail Phone	Fax	In Person	
Regarding:					
Client Instructions:				<u> </u>	
17. Additional remarks:					
18. Cooler Information					
Cooler No Temp °C Condition Seal Inta	ct Seal No Seal Da	ate Signed I	Ву		
1 2.3 Good Yes		!			

C	hain-	of-Cu	stody Record	Turn-Around	Time:	134 M	ONDAY 2-ZOVZ				L	A	.		BIL	TE	20	NI P	MEI	M-11-8	L E	
Client:	BLAG	s ENGI	NEERING INC.	☐ Standard		1-2	1-2013												RA			
-	3,P A	MERIC	A	Project Name	:]		9						ment						
Mailing	Address:	P.O.	Box 87	LAU	uson LS	1A			49	01 H								м 87	'109			
			NM 87413	Project #:	···						5-34				•	•		-4107				
			32-1199					, 80 g. a.														
email o				Project Mana	ger:			_	only)	9)4)							
QA/QC I	Package: dard		□ Level 4 (Full Validation)	J	T. BLAGO J. BLA	٤		§ (8021)	TPH (Gas or	(O LMRE)			SIMS)		PO ₄ ,SC	PCB's						
Accredi		☐ Othe	r	On ce	Markes Fr	all No.		98	l +	RO / DRO /	18.1)	04.1)			O3,NO ₂ ,	s / 8082		(A)				or N)
□ EDD	(Type)_				erailire			MATER	MTBE	<u>5</u>	od 4	od 5	0 or	etals	Σ̈́	side	(A		(f)			≿
Date	Time	Matrix	Sample Request ID	Container Type and # Meoff Lif	Preservative Type		Elio Eliza	BTEX + N	BTEX + M	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHENRIPE			Air Bubbles
1/24/13	1345	SOIL	SE SIDEWALL, 5-pt @ 4'-8	402×1	COUL		-001	X		X									X			
1(1355	10	SE' BASE 5-PE @ 10	11	((-002	X		X									X			
																					\Box	
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			·																			Γ
Date: 7/25/13	Time: 1147	Relinguishe	ed by: Blogg	Received by: Must	Daels	Date 7/25/13	Time 1147	Rer	nark	s:	3	iu	E	کیم	66	•		. —				
Date:	Time:	Relinquishe	ed by:	Received by:	•	Date	Time															
7/25/13	1220	1/Unio	tu Wallen		2 07	12113	5 IDIU	L			BP)	Con	Me	<u>ナ:</u>	J	- K	9 ea C	<u>:e</u>			
I	If necessary,	samples subr	mitted to Hall Environmental may be sub-	contracted to other a	ccrèdited laboratori	es. This serve	s as notice of thi	s possi	bility.	Any su	ıb-con	tracted	data	will be	e clear	ly nota	ted or	the a	nalytical	report.		

Lab Order 1307D19

Date Reported: 8/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Sidewall 5-pt @ 4'-8'

1 . 6:1 11.5 . 0 4:0!

Project: Lawson LS 1A

Collection Date: 7/26/2013 3:00:00 PM

Lab ID: 1307D19-001

Matrix: SOIL

Received Date: 7/30/2013 10:01:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/1/2013 1:14:38 PM	8620
Surr: DNOP	82.1	63-147	%REC	1	8/1/2013 1:14:38 PM	8620
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2013 1:18:19 PM	8630
Surr: BFB	90.5	80-120	%REC	1	7/31/2013 1:18:19 PM	8630
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg 🗥	1	7/31/2013 1:18:19 PM	8630
Toluene	ND	0.048	mg/Kg	1	7/31/2013 1:18:19 PM	8630
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2013 1:18:19 PM	8630
Xylenes, Total	ND	0.095	mg/Kg	1	7/31/2013 1:18:19 PM	8630
Surr: 4-Bromofluorobenzene	98.2	80-120	%REC	1	7/31/2013 1:18:19 PM	8630
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	67	30	mg/Kg	20	7/31/2013 3:12:06 PM	8660

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

- 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 1307D19

Date Reported: 8/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Base 5-pt @ 10'

Project: Lawson LS 1A

Collection Date: 7/26/2013 3:10:00 PM

Lab ID: 1307D19-002 Matrix: SOIL

Received Date: 7/30/2013 10:01:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	12	10	mg/Kg	1	8/1/2013 2:19:54 PM	8620
Surr: DNOP	88.4	63-147	%REC	1	8/1/2013 2:19:54 PM	8620
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2013 1:48:32 PM	8630
Surr: BFB	86.0	80-120	%REC	1	7/31/2013 1:48:32 PM	8630
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	7/31/2013 1:48:32 PM	8630
Toluene	ND	0.047	mg/Kg	1	7/31/2013 1:48:32 PM	8630
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2013 1:48:32 PM	8630
Xylenes, Total	ND	0.095	mg/Kg	1	7/31/2013 1:48:32 PM	8630
Surr: 4-Bromofluorobenzene	93.9	80-120	%REC	1	7/31/2013 1:48:32 PM	8630
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	7/31/2013 3:49:20 PM	8660

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

- 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 2 of 6

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

P

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307D19

02-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8660

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 8660

RunNo: 12330

Prep Date: 7/31/2013

Analysis Date: 7/31/2013

SPK value SPK Ref Val

SeqNo: 350867 %REC

Units: mg/Kg

Analyte

Result **PQL**

HighLimit

%RPD

%RPD

RPDLimit Qual

Chloride

ND 1.5

Sample ID LCS-8660

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 12330

Prep Date: 7/31/2013

LCSS

Batch ID: 8660

SeqNo: 350868

Analysis Date: 7/31/2013

Units: mg/Kg

Analyte

Client ID:

HighLimit

RPDLimit

Qual

Chloride

PQL SPK value SPK Ref Val %REC

90

LowLimit

110

15 1.5 15.00 97.0

Qualifiers:

E

J

Value exceeds Maximum Contaminant Level.

Analyte detected below quantitation limits RSD is greater than RSDlimit 0

RPD outside accepted recovery limits

Value above quantitation range

Analyte detected in the associated Method Blank В

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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

3.5

5.005

WO#: 1307D19

02-Aug-13

Client:

Blagg Engineering

Project:	Lawson L	S 1A									
Sample ID	MB-8620	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PB\$	Batch	ID: 86	20	F	RunNo: 1	2267				
Prep Date:	7/30/2013	Analysis D	ate: 7/	30/2013	5	SeqNo: 3	49068	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		9.9		10.00		99.2	63	147			
Sample ID	LCS-8620	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Clienţ ID:	LCSS	Batch	ID: 86	20	F	RunNo: 1	2267				
Prep Date:	7/30/2013	Analysis D	ate: 7/	30/2013	9	SeqNo: 3	49069	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	51	10	50.00	0	103	77.1	128			
Surr: DNOP		4.3		5.000		86.1	63	147			
Sample ID	1307D19-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	East Sidewall 5-pt	Batch	ID: 86 2	20	F	RunNo: 1:	2312				
Prep Date:	7/30/2013	Analysis D	ate: 8/	1/2013	5	SeqNo: 3	51208	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	44	10	50.05	0	88.8	61.3	138			
Surr: DNOP		3.8		5.005		75.4	63	147			
Sample ID	1307D19-001AMSE) SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	East Sidewall 5-pt	Batch	ID: 862	20	F	RunNo: 1	2312				
Prep Date:	7/30/2013	Analysis D	ate: 8/	1/2013	\$	SeqNo: 3	51283	Units: mg/K	(g		
Analyte	<u></u>	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	43	10	50.05	0	85.0	61.3	138	4.41	20	

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit

70.5

63

147

0

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

Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307D19

02-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8630	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batcl	n ID: 86	30	R	RunNo: 1	2311				
Prep Date: 7/30/2013	Analysis D)ate: 7 /	31/2013	S	SeqNo: 3	50658	Units: mg/k	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	930	•	1000		93.2	80	120			

Sample ID LCS-8630	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	n ID: 86	30	F	RunNo: 1	2311				
Prep Date: 7/30/2013	Analysis D	ate: 7/	31/2013	S	SeqNo: 3	50659	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.9	62.6	136			
Surr: BFB	970		1000		96.8	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

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#: 1307D19

02-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8630	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 86	30	F	RunNo: 1:	2311				
Prep Date: 7/30/2013	Analysis [Date: 7/	31/2013	Ş	SeqNo: 3	50679	Units: mg/k	ζg		
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	0.97		1.000		96.6	80	` 120			
Sample ID LCS-8630	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 86 :	30	F	RunNo: 1	2311				

Sample ID LCS-8630	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		_
Client ID: LCSS	Batc	h ID: 86	30	F	RunNo: 1	2311				
Prep Date: 7/30/2013	Analysis [Date: 7 /	31/2013	S	SeqNo: 3	50680	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.0	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	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

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 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	Wark Order Nu	mber: 1307D19		RcptNo:	1
Received by/dat	e: 146	073013		-		
Logged By:	Lindsay Mangin	7/30/2013 10:01:0	00 AM	Jundy Alburgo		
Completed By:	Lindsay Mangin	7/30/2013 10:24:4	15 AM	Juney Hlygo		
Reviewed By:	MA	07/3a/13				
Chain of Cus	tody					
	als intact on sample bo	ottles?	Yes 🗀	No 🗀	Not Present	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the	samples?	Yes 🗹	No 🗆	na 🗆	
5. Were all san	nples received at a te	mperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🔲		
7. Sufficient sa	mple volume for indic	ated test(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ON	IG) properly preserved?	Yes 🗹	No 🗌		
9. Was preserv	ative added to bottles	?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes	No 🗆	No VOA Vials 🗹	
11, Were any sa	ample containers rece	ived broken?	Yes	No 🗹 🛚	#	
		•			# of preserved bottles checked	
	work match bottle labe pancies on chain of c		Yes 🗹	No 🗌	for pH:	>12 unless noted)
	correctly identified or		Yes 🗹	No 🗆	Adjusted?	
	at analyses were requ		Yes 🗹	No 🗆		
	ding times able to be i customer for authoriza		Yes 🗹	No 🗆	Checked by:	
• •		·				
Special Hand	lling (if applicabl	<u>e)</u>				
16. Was client n	otified of all discrepar	cies with this order?	Yes 🗆	No 🗆	NA 🗹	
Persor	n Notified:	Da	ite:			
By Wh	om:	Vi	a: eMail F	Phone 🗌 Fax	☐ In Person .	
Regar	ding:					
Client	Instructions:					
17. Additional re	emarks:					
18. Cooler Info Cooler N	· · · · · · · · · · · · · · · · · · ·	lition Seal Intact Seal No. Yes	Seal Date	Signed By		

<u>C</u>	hain-	of-Cu	stody Record	Turn-Around	Time:	By Thur: 8/1/	SDAY	HALL ENVIRONMENTAL ANALYSIS LABORATORY													
Client:	BLAGE	ENGL	DEERING INC.	□ Standard		<u>ッ</u> り	2013] [5.2												,
į	ZP A	MED. C	1	Project Name					,	##. A		ww.h	nalle	viron	meni	tal cr	nm				
Mailing	Address	Po.	Box 87	1	wson L	S 1A	Av		49	01 H		is NE						′109			
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			632-1199]				of A			4	8 - 2 - 2 ·	Anal	ysis	Req	ües		Englisher			
email o				Project Mana	iger:)						7							
QA/QC I	Package: dard		☐ Level 4 (Full Validation)	J	BLAGE			TMB's (8021)	+ MTBE + TPH (Gas only)	/ DRO (MRC)		CIMC		PO ₄ ,SC	PCB's						
Accredi					I. BLAGE			4	ř	DR		_ 6	3	02,1	8082			i İ	ŀ		
□ NEL		□ Othe	er	Marina .	NAME OF THE PERSON	on Nation		1	1	Q.	18.	4 8	3	3,2	_		8		ŀ		S o
□ EDD	(Type)			Sampleatem	pelature		200		끮	9	4	1 G	tals	S.	des	~	9	الما			حا
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	1997		BTEX + MEB	BTEX + MTI	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLORID			Air Bubbles (Y
1/26/2013	1500	Soil	EAST SIDEWALL S-Pt @ 4-8' EAST BASE 5-Pt @ 10	402×1	COUL	-00)\	X		х								Х			
11	1510	4	EAST BASE 5-pt C 10	u	и	-0	2	X		х								メ			
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Date	-	D. P 1-1	<u> </u>	10 11	<u> </u>	<u> </u>		<u> </u>	<u>L</u> _							<u> </u>					上
Date: 7/29/13	Time:	Relinquish	H Blogg	Received by:	1,/20102	Date 729/13	Time 1150	Ren	nark	s:	E	ILL	BL	Abb							
Date:	Time:	Relinquish	ed by:	Received by:	1	Date	Time	1													
129/13	1750	1 Mi	tu Waller		07/30	30 13 100 BP CONTACT: JEFF REACE ratories This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.															
٠ ١	ı neçessary,	Pampies sub	mitted to Hall Environmental may be sub-	contracted to other a	creanea laboratorio	es! Inis serves a	s notice of this	s possit	Dility.	Any su	p-contr	acted da	ta will b	e clear	1y nota	ited or	the a	na!ytica!	report.		

Lab Order 1308421

Date Reported: 8/13/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Well head West Sidewall 5-pt @

Project: Lawson LS 1A Collection Date: 8/9/2013 10:55:00 AM

Lab ID: 1308421-001

Matrix: MEOH (SOIL)

Received Date: 8/12/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/12/2013 5:21:16 PM	8810
Surr: DNOP	90.8	63-147	%REC	1	8/12/2013 5:21:16 PM	8810
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/12/2013 12:48:04 PI	M R12570
Surr: BFB	91.3	80-120	%REC	1	8/12/2013 12:48:04 PM	M R12570
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.050	mg/Kg	1	8/12/2013 12:48:04 PM	M R12570
Toluene	ND	0.050	mg/Kg	1	8/12/2013 12:48:04 PM	M R12570
Ethylbenzene	ND	0.050	mg/Kg	1	8/12/2013 12:48:04 PM	M R12570
Xylenes, Total	0.22	0.10	mg/Kg	1	8/12/2013 12:48:04 PM	M R12570
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/12/2013 12:48:04 PM	M R12570
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	8/13/2013 12:08:23 AM	M 8814

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- 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
 - Page 1 of 7 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

P

Lab Order 1308421

Date Reported: 8/13/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Well head West Base 5-pt @ 12'

Project: Lawson LS 1A

Collection Date: 8/8/2013 1:30:00 PM

Lab ID: 1308421-002

Matrix: MEOH (SOIL)

Received Date: 8/12/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/12/2013 5:43:01 PM	8810
Surr: DNOP	93.4	63-147	%REC	1	8/12/2013 5:43:01 PM	8810
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/12/2013 1:45:23 PM	R12570
Surr: BFB	88.7	80-120	%REC	1	8/12/2013 1:45:23 PM	R12570
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.061	0.050	mg/Kg	1	8/12/2013 1:45:23 PM	R12570
Toluene	ND	0.050	mg/Kg	1	8/12/2013 1:45:23 PM	R12570
Ethylbenzene	ND	0.050	mg/Kg	1	8/12/2013 1:45:23 PM	R12570
Xylenes, Total	0.19	0.10	mg/Kg	1	8/12/2013 1:45:23 PM	R12570
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/12/2013 1:45:23 PM	R12570
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	8/13/2013 12:20:48 AM	8814

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308421

13-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8814

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 8814

RunNo: 12577

LowLimit

LowLimit

58.8

90

Prep Date:

8/12/2013

Analysis Date: 8/12/2013 **PQL**

SeqNo: 358283

%REC LowLimit

Units: mg/Kg

%RPD

%RPD

%RPD

HighLimit

RPDLimit

Qual

Analyte Chloride

ND

Sample ID LCS-8814

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 12577

Client ID: LCSS Batch ID: 8814

Prep Date: 8/12/2013

Analysis Date: 8/12/2013

Result

Result

16

16

14

Result

15.00

SPK value

15.00

SPK value SPK Ref Val

SPK value SPK Ref Val

SeqNo: 358284

Units: mg/Kg

Analyte

PQL

1.5

%REC 0 94.0 HighLimit

110

RPDLimit Qual

Chloride

TestCode: EPA Method 300.0: Anions

Sample ID 1308309-002AMS **BatchQC**

SampType: MS

RunNo: 12577

Prep Date: 8/12/2013 Analysis Date: 8/12/2013

SeqNo: 358288

94 9

Units: mg/Kg

Analyte

Client ID:

PQL

1.5

Batch ID: 8814

%REC

HighLimit

109

RPDLimit Qual

Qual

Chloride

Sample ID 1308309-002AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

BatchQC

Batch ID: 8814

RunNo: 12577

109

8/12/2013

Analysis Date: 8/12/2013

HighLimit

Prep Date:

Client ID:

SeqNo: 358289

Units: mg/Kg

%RPD **RPDLimit**

20

Analyte Chloride

Result PQL SPK value 1.5

SPK Ref Val 15.00

1.612

SPK Ref Val

1.612

%REC 94.1

LowLimit 58.8

0.778

Qualifiers:

0

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Holding times for preparation or analysis exceeded

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308421

13-Aug-13

Client: Blagg Engineering
Project: Lawson LS 1A

Sample ID MB-8796 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PRS Batch ID: 8796 RunNo: 12540 Prep Date: Analysis Date: 8/12/2013 SeqNo: 357283 8/9/2013 Units: %REC Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Surr: DNOP 9.7 10.00

Sample ID LCS-8796 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 8796 RunNo: 12540 Prep Date: 8/9/2013 Analysis Date: 8/12/2013 SeqNo: 357284 Units: %REC **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP 3.8 5.000 76.5 63 147

Sample ID MB-8810 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 8810 RunNo: 12540 SeqNo: 357705 Prep Date: 8/12/2013 Analysis Date: 8/12/2013 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Analyte Result **PQL RPDLimit** Diesel Range Organics (DRO) ND 10 Surr: DNOP 9.9 10.00 99.3 63 147

Sample ID LCS-8810 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 8810 RunNo: 12540 Prep Date: 8/12/2013 Analysis Date: 8/12/2013 SeqNo: 357950 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 45 10 50.00 0 89.1 77 1 128 Surr: DNOP 4.1 5.000 81.3 147

Sample ID 1308352-001AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 8796 RunNo: 12540 SegNo: 357951 Units: %REC Prep Date: 8/9/2013 Analysis Date: 8/12/2013 %REC Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.030 87.0 147

TestCode: EPA Method 8015D: Diesel Range Organics SampType: MSD Sample ID 1308352-001AMSD Batch ID: 8796 RunNo: 12540 Client ID: BatchQC Units: %REC Prep Date: 8/9/2013 Analysis Date: 8/12/2013 SeqNo: 357952 %REC %RPD **RPDLimit** Qual Result SPK value SPK Ref Val LowLimit HighLimit Analyte 4.970 83.8 63 147 4.2 Surr: DNOP

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

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 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308421

13-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

SampType: MS Sample ID 1308420-001AMS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 8810 RunNo: 12540 Prep Date: 8/12/2013 Analysis Date: 8/12/2013 SeqNo: 357965 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 49.95 0 96.5 61.3 138 Surr: DNOP 4.0 4.995 81.0 63 147

Sample ID	1308420-001AMSD	SampTy	ре: М	SD	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 88	10	F	RunNo: 1	2540				
Prep Date:	8/12/2013	Analysis Da	te: 8/	12/2013	8	SeqNo: 3	57966	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	49	9.9	49.31	0	98.9	61.3	138	1.17	20	
Surr: DNOP		4.4		4.931		88.9	63	147	0	0	

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

- 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.

WO#:

1308421 13-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8800	Samp	Гуре: М Е	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batcl	Batch ID: R12570			RunNo: 1	2570						
Prep Date: 8/9/2013	Analysis [Analysis Date: 8/12/2013			SeqNo: 358060			60 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	870		1000		86.9	80	120					

Sample ID LCS-8800 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: **LCSS** Batch ID: R12570 RunNo: 12570 Prep Date: 8/9/2013 Analysis Date: 8/12/2013 SeqNo: 358068 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 100 62.6 136 Surr: BFB 940 1000 93.7 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

- 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 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308421

13-Aug-13

Client: Project: Blagg Engineering Lawson LS 1A

Sample ID MB-8800	Samp ⁻	Type: ME	BLK	Tes								
Client ID: PBS	Batc	h ID: R1	2570	F	RunNo: 1	2570						
Prep Date: 8/9/2013	Analysis [Date: 8/	12/2013	9	SeqNo: 358141			(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		103	80	120					
Sample ID LCS-8800 SampType: LCS			Tes	tCode: El	PA Method	8021B: Volat	iles					
OU LID HOUSE				B . W								

Sample ID LCS-8800	Samp	Гуре: LC	s	Tes								
Client ID: LCSS	Batc	h ID: R1	2570	F	RunNo: 1							
Prep Date: 8/9/2013	Analysis [Date: 8/	12/2013	\$	SeqNo: 3	58142	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	1.000	0	102	. 80	120					
Toluene	1.0	0.050	1.000	0	101	80	120					
Ethylbenzene	1.0	0.050	1.000	0	103	80	120					
Xylenes, Total	3.1	0.10	3.000	0	104	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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

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	r: 1308421		RcptNo:	1
Received by/dat	te: UM	08/12/13				
Logged By:	Michelle Garcia	8/12/2013 10:00:00 A	М	Michell Gara	in	
Completed By:	Michelle Garçia	8/12/2013 10:30:44 A	М	Michael Gara	ua)	
Reviewed By:		0x/12/13		,		
Chain of Cus	stody	041-12				
1. Custody sea	als intact on sample bottles?		Yes	No :	Not Present ✓	
2. Is Chain of	Custody complete?		Yes 🗸	No - :	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>		٠.	
Log In						
4. Was an atte	empt made to cool the sample	s?	Yes 🔽	No 🗀	NA:	
5. Were all sa	mples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No	NA !	
6. Sample(s) i	in proper container(s)?		Yes 🗸	No !!		
7, Sufficient sa	ample volume for indicated tes	t(s)?	Yes 🗸	No :		
8. Are sample:	s (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 📒		
9. Was preser	vative added to bottles?		Yes	No 🗸	NA	
10.VOA vials h	nave zero headspace?		Yes	No i	No VOA Vials ✓	
11, Were any s	sample containers received bro	ken?	Yes	No 🗸	# of preserved	
					bottles checked	
	work match bottle labels? epancies on chain of custody)		Yes 🤝	No	for pH: (<2 or	>12 unless noted)
•	s correctly identified on Chain	of Custodv?	Yes 🗸	No :	Adjusted?	,
	hat analyses were requested?		Yes 🗸	No		
15. Were all ho	lding times able to be met? customer for authorization.)		Yes 🗸	No : :	Checked by:	
Special Hand	dling (if applicable)					
16. Was client i	notified of all discrepancies wit	h this order?	Yes	No 🗀	NA 🗸	
Perso	on Notified:	Date:	and the section of th		•	!
By W	hóm:	Via:	eMail :	Phone i Fax	· In Person	· :
Regar	rding:				Tichera perhansariti I sering 2111 di matalia.	i : !
Client	t Instructions:	en de servicio de la compansión de la comp		er a dia 1 a maria - Localino della comine dia 22 architecto 227 a del	THE AND AND SOUTH PROPERTY OF THE PROPERTY.	
17. Additional	remarks:					
18. Cooler Info	ormation					
Cooler N	No Temp °C Condition	Seal Intact Seal No.	Seal Date	Signed By		
1	5.8 Good Y	'es	İ			

C	<u>hain-</u>	of-Cu	stody Record	Turn-Around	Time:	By TUE 8/1:	ESDAY 3 /2017								NI VA		_	ni ii			A .	
Client:	BLAGG	ENGIN	EERING INC] □ Standard		9/1														NTA	AL RY	,
Ĩ	3P B	MERICA		Project Name									r. hall									
Mailing	Address:	PO	Box 87	Lau	ISON LS	1A			490	01 H								м 87	109			
[2	ZOME	LELD N	M 87413	Project #:			-				5-34				•	-		4 107				
Phone #			32-1199	1																		; -
email or				Project Mana	ger:				nly)	$\widehat{\mathbf{g}}$) 4)							
QA/QC F	-		☐ Level 4 (Full Validation)	JEFF	BLALL			s (802	(Gas o	/ DRO (MRCD)			SIMS)		PO ₄ ,S(PCB's						
Accredit		□ Othe	er	JEFF Sampler: On: ice	Jeff B. Oyes in	466 ENO 1		+ <u>NIBE + IM</u> B's (8021)	+ TPH	RO / DI	18.1)	04.1)	8270		03,NO2	s / 8082		(A)				or N)
□ EDD	(Type)_			Sample Jiem	eralure 🔇	*			TBE	<u>0</u>	bo 4	g S	0	etals	ž	cide	€	\ <u>.</u>	DE			ځ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	126 126	842L	BTEX + M	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
9/13	1055	SOIL	5- PE @ 4-9	402×1	cerc	_	-001	X		X									X			Γ
18/13	1330	1 (WEUMEAD WEST BASE 5-P= @ 12	l.	10		ω_2	メ		×									X			Γ
			•																			Γ
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		:												1								
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Date: 3/9/13	Time: 1457	Relinquish	H Blery	1 1400	Daela	Pate 9/9/13	Time 1457	Rer	nark	s:	Bu	<u>i</u> _	\mathcal{B}	LA (66							
Date:	Time:	Relinguish	ed by:	Received by		Date	Time			_	7.0											
8/12/13	45	1/1/	Votte Waller		0		7000												ACE			
į:	f necessary,	samples sub	mitted to Hall Environmental may be subc	contracted to other a	ccredited laboratorie	es. This serve	es as notice of th	is possi	bility.	Any su	b-cont	racted	data v	will be	dearl	y nota	ted on	the ar	nalytica	l report.		

Lab Order 1308531

Date Reported: 8/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Wellhead NE Base 3-pt @ 12'

Project: Lawson LS 1A

Collection Date: 8/12/2013 2:30:00 PM

Lab ID: 1308531-001 **Matrix:** MEOH (SOIL)

Received Date: 8/13/2013 10:10:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	:: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/13/2013 4:11:43 PM	8831
Surr: DNOP	98.7	63-147	%REC	1	8/13/2013 4:11:43 PM	8831
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/13/2013 2:06:08 PM	R12603
Surr: BFB	93.0	80-120	%REC	1	8/13/2013 2:06:08 PM	R12603
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	0.14	0.050	mg/Kg	1	8/13/2013 2:06:08 PM	R12603
Toluene	ND	0.050	mg/Kg	1	8/13/2013 2:06:08 PM	R12603
Ethylbenzene	ND	0.050	mg/Kg	1	8/13/2013 2:06:08 PM	R12603
Xylenes, Total	0.30	0.10	mg/Kg	1	8/13/2013 2:06:08 PM	R12603
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	8/13/2013 2:06:08 PM	R12603
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	8/13/2013 1:17:55 PM	8834

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

- 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 1308531

Date Reported: 8/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Wellhead NE Sidewall 3-pt @ 4'-

Project: Lawson LS 1A Collection Date: 8/12/2013 2:40:00 PM

Lab ID: 1308531-002 Matrix: MEOH (SOIL) Received Date: 8/13/2013 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	:: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/13/2013 4:42:06 PM	8831
Surr: DNOP	99.7	63-147	%REC	1	8/13/2013 4:42:06 PM	8831
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/13/2013 2:36:20 PM	R12603
Surr: BFB	91.2	80-120	%REC	1	8/13/2013 2:36:20 PM	R12603
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.050	mg/Kg	1	8/13/2013 2:36:20 PM	R12603
Toluene	ND	0.050	mg/Kg	1	8/13/2013 2:36:20 PM	R12603
Ethylbenzene	ND	0.050	mg/Kg	1	8/13/2013 2:36:20 PM	R12603
Xylenes, Total	ND	0.10	mg/Kg	1	8/13/2013 2:36:20 PM	R12603
Surr: 4-Bromofluorobenzene	96.4	80-120	%REC	1	8/13/2013 2:36:20 PM	R12603
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	8/13/2013 1:30:19 PM	8834

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
 - Not Detected at the Reporting Limit $Page \ 2 \ of \ 6$ Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

p

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308531

14-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8834

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

8/13/2013

Batch ID: 8834 Analysis Date: 8/13/2013 RunNo: 12612 SeqNo: 359095

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Result **PQL** ND 1.5

Sample ID LCS-8834

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 12612

Client ID: LCSS 8/13/2013 Prep Date:

Batch ID: 8834

SeqNo: 359096

Units: mg/Kg

Analysis Date: 8/13/2013

%REC

PQL SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

90

%RPD

Qual

15.00

15

Chloride

1.5

97.1

LowLimit HighLimit

110

RPDLimit

Analyte





Qualifiers: Value exceeds Maximum Contaminant Level.

Е Value above quantitation range Analyte detected below quantitation limits 1

RSD is greater than RSDlimit 0

RPD 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 Р Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

4.6

WO#:

1308531

14-Aug-13

Client:

Blagg Engineering

Project:

Surr: DNOP

Lawson LS 1A

Sample ID MB-8831	Samp [*]	Type: M	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batc	h ID: 88	31	F	RunNo: 1	2591				
Prep Date: 8/13/2013	Analysis [Date: 8/	13/2013	S	SeqNo: 3	58763	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	8.8		10.00		88.5	63	147			
Sample ID LCS-8831	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Diese	el Range (Organics	
Client ID: LCSS	Batc	h ID: 88	31	F	RunNo: 1	2591				
Prep Date: 8/13/2013	Analysis [Date: 8 /	13/2013	8	SeqNo: 3	58764	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	89.0	77.1	128			

5.000

92.1

63

147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ė
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- 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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308531

14-Aug-13

Client:	Blagg Engineering
Project:	Lawson LS 1A

Project:	Lawson L	.5 1A									
Sample ID 5ML	. RB	SampTy	/pe: M E	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	je	
Client ID: PBS	;	Batch	ID: R1	2603	F	RunNo: 1	2603				
Prep Date:		Analysis Da	ate: 8/	13/2013	8	SeqNo: 3	59002	Units: mg/k	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga Surr: BFB	anics (GRO)	ND 950	5.0	1000		95.0	80	120			
Sample ID 2.5U	IG GRO LCS	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	je	
Client ID: LCS	s	Batch	ID: R1	2603	F	RunNo: 1	2603				
Prep Date:		Analysis Da	ate: 8/	13/2013	S	SeqNo: 3	59003	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	25	5.0	25.00	0	101	62.6	136			
Surr: BFB		990		1000		98.9	80	120			
Sample ID 1308	3531-001AMS	SampTy	pe: MS	<u> </u>	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: Well	head NE Base	3 Batch	ID: R1	2603	F	RunNo: 1 :	2603				
Prep Date:		Analysis Da	ite: 8/	13/2013	S	SeqNo: 3	59005	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	19	5.0	25.00	0	77.2	76	156		·	
Surr: BFB		990		1000		99.1	80	120			
Sample ID 1308	3531-001AMSE) SampTy	pe: MS	SD C	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: Wall	L. LNE B	0 D-4-b	iDi Dai	0000	_	unNo: 44	2000		_		

Sample ID	1308531-001AMSD	SampT	/pe: M \$	SD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	Wellhead NE Base	3 Batch	1D: R1	2603	F	RunNo: 1	2603					l
Prep Date:	S	SeqNo: 3	59006	Units: mg/K	(g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	•
Gasoline Range	e Organics (GRO)	31	5.0	25.00	0	124	76	156	46.7	17.7	R	

101

80

120

1000

Qualifiers:

Surr: BFB

* Value exceeds Maximum Contaminant Level.

1000

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD 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

0

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308531

14-Aug-13

Client: Blagg Engineering
Project: Lawson LS 1A

Sample ID 5ML RB	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	n ID: R1	2603	F	RunNo: 1	2603				
Prep Date:	Analysis [oate: 8/	13/2013	S	SeqNo: 3	59014	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		102	80	120			

Sample ID 100NG BTEX LC	SampT	ype: LC	:S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: R1	2603	R	RunNo: 1:	2603				
Prep Date:	Analysis D	ate: 8/	13/2013	S	SeqNo: 3	59015	Units: mg/K	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.5	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 1308531-002AM	S SampT	Гуре: МЅ	;	Tes	tCode: El	PA Method	8021B: Vola	tiles		•
Client ID: Wellhead NE Sie	dew Batcl	h ID: R1	2603	F	RunNo: 1	2603				
Prep Date:	Analysis D	Date: 8 /	13/2013	S	SeqNo: 3	59018	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0.02307	105	67.3	145			
Toluene	1.1	0.050	1.000	0.01320	104	66.8	144			
Ethylbenzene	1.1	0.050	1.000	0.02465	104	61.9	153			
Xylenes, Total	3.2	0.10	3.000	0.02847	107	65.8	149			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	80	120			

Sample ID 1308531-002AM	ISD SampT	ype: MS	SD .	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: Wellhead NE Si	dew Batch	n ID: R1	2603	F	RunNo: 1	2603				
Prep Date:	Analysis D	ate: 8/	13/2013	S	SeqNo: 3	59019	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0.02307	111	67.3	145	5.47	20	
Toluene	1.1	0.050	1.000	0.01320	110	66.8	144	5.80	20	
Ethylbenzene	1.1	0.050	1.000	0.02465	111	61.9	153	6.75	20	
Xylenes, Total	3.5	0.10	3.000	0.02847	114	65.8	149	6.52	20	
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120	0	0	

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

- 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 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:	1308531		RcptNo:	1
Received by/dat	te: 467	08/13/13				
Logged By:	Michelle Garcia	8/13/2013 10:10:00 AM		Michelle Com		
		8/13/2013 10:29:44 AM		Mirut Gan Mirut Gan	•.	:
Completed By:	Michelle Garcia	08/13/13	и	" pour you	un)	
Reviewed By:	10	30/13/10				
Chain of Cus			·			
•	als intact on sample bottles?		Yes	No 🗄	Not Present ✓	
2. Is Chain of (Custody complete?		Yes 🗸	No :	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the sample	es?	Yes 🗸	No !	NA	
5. Were all sa	mples received at a temperati	ure of >0° C to 6.0°C	Yes 🗸	No !	NA i	
6. Sample(s) i	in proper container(s)?		Yes 🗸	No i		
7, Sufficient sa	ample volume for Indicated tes	st(s)?	Yes 🗸	No !		
8. Are samples	s (except VOA and ONG) prop	perly preserved?	Yes 🗸	No f		
9. Was preser	vative added to bottles?		Yes	No 🖍	NA !	•
10.VOA vials h	ave zero headspace?		Yes	No ! i	No VOA Vials	
11. Were any s	ample containers received br	oken?	Yes	No 🗸	# of preserved	
12 Door name	work match bottle labels?		Yes 🗸	No . ⊢ i	bottles checked for pH:	
	epancies on chain of custody)		165	110		or >12 unless noted)
13. Are matrice	s correctly identified on Chain	of Custody?	Yes 🗸	No !	Adjusted?	
14, Is it clear w	hat analyses were requested?		Yes 🗸	No 📙		
	Iding times able to be met? customer for authorization.)		Yes 🗸	No i i i	Checked by:	
Special Hand	dling (if applicable)					
16. Was client	notified of all discrepancies w	th this order?	Yes	No !!	NA 🗸	
Perso	on Notified:	Date:	10 to 10 to	en e como en el los colos de colos montes.		:
By W	hom:	Via:	eMail	Phone Fax	In Person	•
Rega	rding:	THE PERSONNEL PROGRAMMENT AND AND A TRANSPORT AND TRANSPOR	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	·		1
Client	t Instructions:		annana anna bha aidhlidh (' l' line)			1
17. Additional	remarks:					·
18. <u>Cooler Inf</u> Cooler I		Seal Intact Seal No	Seal Date	Signed By		

C	hain-	of-Cบ	istody Record	Turn-Around	lime:	154 WED. AUG 14, 2013				Į.	4A	e 1	FI	NV	/TE	20	NR	ИFI	NTA	41	
Client:	BLAGE	ENGLA	JEERNO INC.	☐ Standard	⊠Rush	700 17, 2013	-												TO		,
7	$ZP \wedge$			Project Name):		7 6	egg e Vice	, °+4,						nent						
Mailing	Address:	PO	Zo. 07	LA	WSON LS	: 1A		49	01 H								M 87	109			
7	3.0040	76(1)	IM STUTS	Project #:			_		el. 50					-	•		-4107				
Phone #	# 5	505-1	637-1199				13.					Α	nal	/sis	Req	ues					
		20 5 2		Project Mana	iger:					ć to.											
QA/QC F	•		☐ Level 4 (Full Validation)		JEFF Br TEFF BJ	A60	<u> </u>	TPH (Gas only)	#F/ 02			SIMS)		,PO4,SC	PCB's						į
Accredi		□ Othe	er	On locality	VIII Voos Bee				RO / DI	18.1)	04.1)			23,NO ₂	s / 8082		(A)				or S
□ EDD	Or Fax#: C Package: andard			Sample from	perature: 1			置	<u>©</u>	od 4	g g	0 0	etals	Ž,	cide	Æ	i.VC	30			≿
Date	Time⊹	Matrix	Sample Request ID		Preservative Type		X	BTEX + MTBE +	ТРН 8015В (GRO / DRO / <u>диве</u>)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHORNE			Air Bubbles
3/12/13	1430	Soil	WELLHEAD NE BASE	40221		-001	X		X									×		1	\uparrow
17 15 11			WELLHEAD NE SIDEWALL	(4	V.	-002	×		X									$\frac{1}{x}$		-	\dagger
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Date: 3/12/13	1343	20	1 399	Received by:	Jale	Date Time	1	<u>l</u> mark	I (S:	Bil	L !	L Bis	666		<u> </u>		<u> </u>	<u> </u>			
Date:	1727	apr	istu belas omitted to Hall Environmental may be sub	Received by:	U8 13	Date Time)	16. 1674	13:						EE			•			

Lab Order 1308644

Date Reported: 8/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Wellhead North Sidewall 3-Point

 Project:
 Lawson LS 1A
 Collection Date: 8/13/2013 12:08:00 PM

 Lab ID:
 1308644-001
 Matrix: MEOH (SOIL)
 Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS					Analyst	: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/15/2013 1:45:56 PM	8877
Surr: DNOP	80.9	63-147		%REC	1	8/15/2013 1:45:56 PM	8877
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	10	5.0		mg/Kg	1	8/15/2013 12:38:10 PM	R12646
Surr: BFB	139	80-120	S	%REC	1	8/15/2013 12:38:10 PM	R12646
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.050		mg/Kg	1	8/15/2013 12:38:10 PM	R12646
Toluene	ND	0.050		mg/Kg	1	8/15/2013 12:38:10 PM	R12646
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2013 12:38:10 PM	R12646
Xylenes, Total	0.13	0.10		mg/Kg	1	8/15/2013 12:38:10 PM	R12646
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	8/15/2013 12:38:10 PM	R12646
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	8/15/2013 12:42:24 PM	8881

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 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308644

16-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-8881

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 8881

RunNo: 12669

Prep Date:

8/15/2013

Analysis Date: 8/15/2013

PQL

SeqNo: 360956

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-8881

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 8881

RunNo: 12669

Prep Date: 8/15/2013 Analysis Date: 8/15/2013

SeqNo: 360957

Units: mg/Kg

Analyte

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

%REC

LowLimit HighLimit **RPDLimit**

Qual

Chloride

PQL

99.7

%RPD

%RPD

110

1.5

Result

15.00

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- 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
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308644

16-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID LCS-8877 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 8877 RunNo: 12645 Prep Date: 8/15/2013 Analysis Date: 8/15/2013 SeqNo: 360387 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10 Diesel Range Organics (DRO) 46 50.00 92.5 77.1 128 3.4 5.000 Surr: DNOP 68.3 63 147

Sample ID MB-8877	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics	
Client ID: PBS	Batch	ı ID: 88	77	F	RunNo: 1	2645				
Prep Date: 8/15/2013	Analysis D	ate: 8/	15/2013	S	SeqNo: 3	60388	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

iesel Range Organics (DRO) ND 10 Surr: DNOP 7.7 10.00 77.4 63 147

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 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308644

16-Aug-13

Client: Project:

Blagg Engineering

Sample ID 5ML RB

Lawson LS 1A

Client ID: PBS SampType: MBLK Batch ID: R12646 TestCode: EPA Method 8015D: Gasoline Range RunNo: 12646

PQL

PQL

Batch ID: R12646

5.0

SeqNo: 360865

120

Prep Date: Analyte

Analysis Date: 8/15/2013

Result

Units: mq/Kq HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO)

ND 5.0

SampType: LCS

SPK Ref Val

897

%REC

Surr: BFB Sample ID 2.5UG GRO LCS 900

1000

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 12646

LowLimit

LowLimit

80

Client ID: Prep Date: LCSS

Batch ID: R12646

Analysis Date: 8/15/2013

SPK value

25.00

1000

11.66

466.2

SeqNo: 360866 %REC

Units: mg/Kg

126

120

Analyte Gasoline Range Organics (GRO) Surr: BFB

22 960

Result

5.0

87.2 95.5

74.5 80

76

80

HighLimit %RPD **RPDLimit**

Qual

Client ID:

Prep Date:

Sample ID 1308645-001AMS **BatchQC**

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 12646

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Sample ID 1308645-001AMSD

BatchQC

Result PQL

11

450

Analysis Date: 8/15/2013 SPK value SPK Ref Val

SegNo: 360868 %REC

LowLimit

HighLimit

156

120

%RPD **RPDLimit**

Qual

Surr: BFB

Client ID:

SampType: MSD

Batch ID: R12646

5.0

TestCode: EPA Method 8015D: Gasoline Range

97.6

96.9

RunNo: 12646

Analysis Date: 8/15/2013

SeqNo: 360876

Units: mg/Kg

RPDLimit Qual 17.7

0

Prep Date: Analyte Gasoline Range Organics (GRO)

Surr: BFB

Result **PQL** 11

460

SPK value SPK Ref Val 11.66

466.2

n 90.7

0

%REC

97.7

LowLimit 76

80

HighLimit 156 120 %RPD 7.35

0

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

R Analyte detected in the associated Method Blank

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 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308644

16-Aug-13

Client: Blagg Engineering
Project: Lawson LS 1A

Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ı ID: R1	2646	F	RunNo: 1	2646				
Prep Date:	Analysis D	ate: 8/	15/2013	S	SeqNo: 3	60894	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	1.1		1.000		106	80	120			

Sample ID 100NG BTEX LC:	S Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R1	2646	F	RunNo: 1	2646				
Prep Date:	Analysis [Date: 8/	15/2013	8	SeqNo: 3	60895	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID 1308644-001AN	is Samp	Гуре: м S	;	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: Wellhead North	Sid Batc	h ID: R1	2646	F	RunNo: 1	2646				
Prep Date:	Analysis [Date: 8/	15/2013	S	SeqNo: 3	60898	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.050	0.8052	0.004050	102	67.3	145			
Toluene	0.81	0.050	0.8052	0.009751	99.3	66.8	144			
Ethylbenzene	0.85	0.050	0.8052	0.02231	103	61.9	153			
Xylenes, Total	2.7	0.10	2.416	0.1589	104	65.8	149			
Surr: 4-Bromofluorobenzene	0.92		0.8052		114	80	120			

Sample ID 1308644-001AN	I SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: Wellhead North	Sid Batch	n ID: R1	2646	F	RunNo: 1	2646				
Prep Date:	Analysis D	ate: 8/	15/2013	5	SeqNo: 3	60899	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.050	0.8052	0.004050	91.9	67.3	145	10.7	20	
Toluene	0.73	0.050	0.8052	0.009751	89.9	66.8	144	9.85	20	
Ethylbenzene	0.78	0.050	0.8052	0.02231	94.7	61.9	153	8.06	20	
Xylenes, Total	2.4	0.10	2.416	0.1589	94.6	65.8	149	8.94	20	
Surr: 4-Bromofluorobenzene	0.95		0.8052		119	80	120	0	0	

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 5

HALL ENVIRONMENTAL ANALYSIS ALABORATORY

tiaii Environmeniai Anaiysis Laboraiory 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 Number: 1	308644		RcptNo:	1
Received by/date: 08	513			<u></u>	
Logged By: Ashley Gallegos 8/15/20	13 10:10:00 AM		A		
	13 10:20:28 AM		A		
Reviewed By:	. 1 .		, 0		
Chain of Custody	15/13				
Custody seals intact on sample bottles?		Yes 🗌	No 🗌	Not Present ✓	
Substance of sample bottles? Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
How was the sample delivered?	,	Courier	_		
5. Now was the sample delivered?	:	Obdite			
<u>Log In</u>					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° C	r to 60°C	Yes 🗹	No 🗀	NA 🗆	
5. Were an samples received at a temperature or 70 C	7 to 6.0 C	Yes 🗹	140	IVA L	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sample volume for indicated test(s)?	,	Yes 🗹	No 🗍		
8. Are samples (except VOA and ONG) properly present		Yes 🗸	No 🗌	•	•
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
40		\Box		N. 10415 1 2	
10.VOA vials have zero headspace?		Yes ∐	No 📙	No VOA Vials	
11. Were any sample containers received broken?		Yes U	No 🗹	# of preserved	
12. Does paperwork match bottle labels?		Yes 🗹	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of custody)					r >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 L	Checked by:	
<u>Special Handling (if applicable)</u>					
16. Was client notified of all discrepancies with this order	? `	Yes 🗆	No 🗌	NA 🗹	-
Person Notified:	Date:				
By Whom:	Via:	eMail [] Phone 🗌 Fax	☐ In Person	
Regarding:					
Client Instructions:					
17. Additional remarks:			•		
18. Cooler Information					•
Cooler No Temp °C Condition Seal Intact	Seal No Sea	al Date	Signed By		
1. 1.6 Good Yes			j <u>'</u>		

C	<u>hain-</u>	.of-Cւ	istody Record	Turn-Around	lime:	84 8-	16-2013					AI		EN		TD	ΩN.	I B.A.I	- al-	ΓAL	
Client:	3LAGG	ENGINE	ERWA INC.	☐ Standard	⊠Rush															I AL OR'	
		MERIC		Project Name	€:			۰		45 ³							l.com				•
Mailing A	Address	Pa	Box 87	LAU	ison LS	1A			490	າ1 H≄								8710	o.		
	ን ን	SIE, X	NM 87413	Project #:							5-34				-		, 1970 45-4		9		
Phone #	:	505-	632-1199					E.				***								angle of	
email or				Project Mana	ger:				only)												
QA/QC P	ackage:] -	72		i	(8021)	s or	(CATES)			<u>@</u>	[8	ر ا	S S					
★ Standard			<u> </u>	Busco			8) s,	(Ga	/ DRO /			SIMS)	- 8	5	PCB.						
Accredit		C 04-		Sampler:	T. B.ALL			1	+ TPH (Gas		=	\Rightarrow	20		2	/ 8082		ļ			12
□ NELA			er	On Ice	V Yest				+	(GRO	418	504	, z	<u>s</u>	ٳػۣٙٳ	/ se	18	3	1	. [į
□ EDD	(1 ype)_			1	j	3.4	<u> </u>	+MTBE	MTBE	98	pod	pp	ĕ	leta	<u>ב</u>	ticid	8	<u>}</u>	3		
Date	Time	Matrix	Sample Request ID	Container	Preservative Type			4+	+	8015B	Met	<u></u> ₩	88	8	L) s	Pes	ي اچ	VU (Semi-V			1 4
Date	TILLIC	Widdix	Cample Request 15	Type and #	Туре	12/	70040	ВТЕХ	BTEX	TPH	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)	SZ7U (Semi-VOA)			ā
8/13/2013	1200	Say	WELLHEAD NORTH SIDEWALL 3-POINT @ 4-9	4 02 X1	Ceas		-001	m X	<u>B</u>	닛		<u>ш </u>	<u>-</u>	<u>~ ·</u>	<	<u>~</u>	80 6		1		1
2013	1200		3-POINT @ 4-9	(02)			- 001			$\widehat{}$		\dashv	-+	+	+	+		- ×			+
	•	<u> </u>								}	\dashv	\perp	\dashv	+	\dashv	-	+	+	-		+
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										_			_		_		\perp				\bot
Data	Tima:	Dollnaviah	ad bus	Density of his							[_										\perp
Date: 8/14/2013	Time: 1149	Relinquish	1 By	Received by:	- Walt	8/14/2	Time 0/2 1149	Rem	narks	; ;	\mathcal{B}_{1}	Ш	BL	AGL-							
	Time:	Relinguish	ed by:	Received by:	i Wallt	Date															
1/4/13		\(\)		M) ~	السراء	(2 1/1)				17 h				_		-				
	1743 necessary,	sambles sub	Mis tw Walls mitted to Hall Environmental may be sub-	on raced to wher a	credited laboratorie	s. This ser	ves as notice of this	possit	oility. A	nv suh								ACE e anabiti	cal rec	ort.	

Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project:

Lab ID:

LAWSON LS 1A

1308811-001

Client Sample ID: NW Base 5-point @ 12'

Collection Date: 8/15/2013 11:20:00 AM Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG				Analys	t: JME	
Diesel Range Organics (DRO)	34	10	mg/Kg	1	8/22/2013 1:04:50 PM	8945
Surr: DNOP	95.8	63-147	%REC	1	8/22/2013 1:04:50 PM	8945
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	7.5	4.7	mg/Kg	1	8/21/2013 8:12:49 PM	8934
Surr: BFB	113	80-120	%REC	1	8/21/2013 8:12:49 PM	8934
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	8/21/2013 8:12:49 PM	8934
Toluene	ND	0.047	mg/Kg	1	8/21/2013 8:12:49 PM	8934
Ethylbenzene	ND	0.047	mg/Kg	1	8/21/2013 8:12:49 PM	8934
Xylenes, Total	0.57	0.094	mg/Kg	1	8/21/2013 8:12:49 PM	8934
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/21/2013 8:12:49 PM	8934
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	8/20/2013 2:39:46 PM	8940

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.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Ο 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
 - Page 1 of 10
 - Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NW Sidewall 5-pt Comp @ 4'-10

 Project:
 LAWSON LS 1A
 Collection Date: 8/15/2013 3:02:00 PM

 Lab ID:
 1308811-002
 Matrix: SOIL
 Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	16	9.9	mg/Kg	1	8/22/2013 2:10:18 PM	8945
Surr: DNOP	65.3	63-147	%REC	1	8/22/2013 2:10:18 PM	8945
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2013 4:23:45 PM	8934
Surr: BFB	97.0	80-120	%REC	1	8/21/2013 4:23:45 PM	8934
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	8/21/2013 4:23:45 PM	8934
Toluene	ND	0.048	mg/Kg	1	8/21/2013 4:23:45 PM	8934
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2013 4:23:45 PM	8934
Xylenes, Total	ND	0.097	mg/Kg	1	8/21/2013 4:23:45 PM	8934
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	8/21/2013 4:23:45 PM	8934
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	8/20/2013 3:17:00 PM	8940

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 10

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

Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: LAWSON LS 1A

Lab ID: 1308811-003 Client Sample ID: Meter Base 3-pt

Collection Date: 8/16/2013 12:15:00 PM

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG					Analys	:: JME	
Diesel Range Organics (DRO)	12	10		mg/Kg	1	8/22/2013 2:32:02 PM	8945
Surr: DNOP	74.1	63-147		%REC	1	8/22/2013 2:32:02 PM	8945
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	9.2	4.6		mg/Kg	1	8/21/2013 4:52:23 PM	8934
Surr: BFB	125	80-120	S	%REC	1	8/21/2013 4:52:23 PM	8934
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.046		mg/Kg	1	8/21/2013 4:52:23 PM	8934
Toluene	ND	0.046		mg/Kg	1	8/21/2013 4:52:23 PM	8934
Ethylbenzene	ND	0.046		mg/Kg	1	8/21/2013 4:52:23 PM	8934
Xylenes, Total	0.57	0.093		mg/Kg	1	8/21/2013 4:52:23 PM	8934
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	8/21/2013 4:52:23 PM	8934
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	8/20/2013 3:29:24 PM	8940

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.
- Value above quantitation range
- Analyte detected below quantitation limits
- O 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
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
 - Page 3 of 10
 - Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Analytical Report Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Project:** LAWSON LS 1A

1308811-004

Lab ID:

Collection Page 8/16/2013 12:20:00 PM

Collection Date: 8/16/2013 12:20:00 PM

Matrix: SOIL

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/22/2013 2:53:52 PM	8945
Surr: DNOP	68.7	63-147	%REC	1	8/22/2013 2:53:52 PM	8945
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/21/2013 5:21:04 PM	8934
Surr: BFB	97.3	80-120	%REC	1	8/21/2013 5:21:04 PM	8934
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	8/21/2013 5:21:04 PM	8934
Toluene	ND	0.047	mg/Kg	1	8/21/2013 5:21:04 PM	8934
Ethylbenzene	ND	0.047	mg/Kg	1	8/21/2013 5:21:04 PM	8934
Xylenes, Total	ND	0.095	mg/Kg	1	8/21/2013 5:21:04 PM	8934
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	8/21/2013 5:21:04 PM	8934
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	8/20/2013 3:41:48 PM	8940

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 10

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

Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Meter North Base 5-pt @ 10'

Project: LAWSON LS 1A

Collection Date: 8/19/2013 11:25:00 AM

Lab ID: 1308811-005

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS					Analy	st: JME
Diesel Range Organics (DRO)	170	9.9		mg/Kg	1	8/22/2013 3:15:38 PM	8945
Surr: DNOP	77.0	63-147		%REC	1	8/22/2013 3:15:38 PM	8945
EPA METHOD 8015D: GASOLINE RA	ANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	72	4.7		mg/Kg	1	8/21/2013 5:49:45 PM	8934
Surr: BFB	375	80-120	S	%REC	1	8/21/2013 5:49:45 PM	l 8934
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	ND	0.047		mg/Kg	1	8/21/2013 5:49:45 PM	8934
Toluene	0.12	0.047		mg/Kg	1	8/21/2013 5:49:45 PM	8934
Ethylbenzene	0.32	0.047		mg/Kg	1	8/21/2013 5:49:45 PM	8934
Xylenes, Total	4.1	0.093		mg/Kg	1	8/21/2013 5:49:45 PM	8934
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	1	8/21/2013 5:49:45 PM	8934
EPA METHOD 300.0: ANIONS						Analys	st: JRR
Chloride	ND	30		mg/Kg	20	8/20/2013 3:54:14 PM	8940

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 5 of 10

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

Lab Order 1308811

Date Reported: 8/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Meter North Sidewall 5-pt @ 4'-

Project: LAWSON LS 1A

Collection Date: 8/19/2013 11:30:00 AM

Lab ID: 1308811-006

Matrix: SOIL Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/22/2013 3:37:27 PM	8945
Surr: DNOP	66.0	63-147	%REC	1	8/22/2013 3:37:27 PM	8945
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/21/2013 6:47:03 PM	8934
Surr: BFB	99.2	80-120	%REC	1	8/21/2013 6:47:03 PM	8934
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	8/21/2013 6:47:03 PM	8934
Toluene	ND	0.048	mg/Kg	1	8/21/2013 6:47:03 PM	8934
Ethylbenzene	ND	0.048	mg/Kg	1	8/21/2013 6:47:03 PM	8934
Xylenes, Total	ND	0.096	mg/Kg	1	8/21/2013 6:47:03 PM	8934
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	8/21/2013 6:47:03 PM	8934
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	53	30	mg/Kg	20	8/20/2013 4:06:38 PM	8940

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 6 of 10
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308811

23-Aug-13

Client:

Blagg Engineering

Project:

LAWSON LS 1A

Sample ID MB-8940

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 8940

RunNo: 12772

Prep Date: 8/20/2013

SeqNo: 364061

Units: mg/Kg

Analysis Date: 8/20/2013 PQL

Analyte Chloride

ND 1.5

HighLimit %RPD

RPDLimit

Qual

SampType: LCS

Result

Result

Result

Result

14

15

15

TestCode: EPA Method 300.0: Anions

Sample ID LCS-8940

Client ID:

LCSS

RunNo: 12772

Prep Date:

8/20/2013

Batch ID: 8940 Analysis Date: 8/20/2013

PQL

1.5

SeqNo: 364062

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC

LowLimit

Qual

Chloride

SPK value SPK Ref Val %REC

99.3

HighLimit

Sample ID 1308727-001AMS

15.00

15.00

15.00

90 110 %RPD **RPDLimit**

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC** Prep Date:

Batch ID: 8940

0.7989

0

RunNo: 12772 SeqNo: 364066

Units: mg/Kg

Analyte

8/20/2013

Analysis Date: 8/20/2013 **PQL**

1.5

SPK value SPK Ref Val

%REC 91.7

LowLimit

HighLimit %RPD

109

RPDLimit

Qual

Chloride

SampType: MSD

58.8 TestCode: EPA Method 300.0: Anions

Sample ID 1308727-001AMSD Client ID: **BatchQC**

Batch ID: 8940

RunNo: 12772

Units: mg/Kg

RPDLimit Qual

Prep Date:

Analyte

Chloride

8/20/2013

Analysis Date: 8/20/2013

PQL

1.5

SPK value SPK Ref Val 0.7989

%REC 90.0

SeqNo: 364067

LowLimit 58.8 HighLimit 109 %RPD 1.72

Qualifiers:

Ē

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits RSD is greater than RSDlimit O

R RPD outside accepted recovery limits

Value above quantitation range

В

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit RL

Analyte detected in the associated Method Blank

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

Result

WO#:

%RPD

RPDLimit

1308811

23-Aug-13

Qual

Client: Blagg Engineering Project: LAWSON LS 1A

Sample ID 1308743-001AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 8936 RunNo: 12782 Prep Date: 8/20/2013 Analysis Date: 8/21/2013 SeqNo: 364416 Units: %REC

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit Surr: DNOF 5.6 5.030 63 147 111

Sample ID 1308743-001AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 8936 RunNo: 12782 Prep Date: 8/20/2013 Analysis Date: 8/21/2013 SeqNo: 364417 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 4.6 4.936 93.6 63 0 147

Sample ID LCS-8945 TestCode: EPA Method 8015D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 8945 RunNo: 12782 Prep Date: 8/20/2013 Analysis Date: 8/21/2013 SeqNo: 364645 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 n 50.00 97.8 77.1 128 Surr: DNOP 4.8 5.000 96.5 63 147

Sample ID MB-8945 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 8945 RunNo: 12815 Prep Date: 8/20/2013 Analysis Date: 8/22/2013 SegNo: 365284 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result **PQL** LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 71.9 7.2 10.00 63 147

Sample ID 1308811-001AMS TestCode: EPA Method 8015D: Diesel Range Organics SampType: MS NW Base 5-point @ Batch ID: 8945 RunNo: 12815 Prep Date: 8/20/2013 Analysis Date: 8/22/2013 SeqNo: 365339 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 32 75 Diesel Range Organics (DRO) 81 10 49.90 95.9 613 138 Surr: DNOP 3.8 4.990 75.4 147

Sample ID 1308811-001AMSD TestCode: EPA Method 8015D: Diesel Range Organics SampType: MSD Client ID: NW Base 5-point @ Batch ID: 8945 RunNo: 12815 Prep Date: Analysis Date: 8/22/2013 8/20/2013 SeqNo: 365340 Units: mg/Kg HighLimit SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value Lowl imit Qual 32.75 61.3 20 Diesel Range Organics (DRO) 84 10 50.51 101 138 3.51 Surr: DNOP 3.5 5.051 69.7 63 147 0 0

Qualifiers:

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

Page 8 of 10

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308811

23-Aug-13

Client: Project:

Blagg Engineering LAWSON LS 1A

Sample ID MB-8934

SampType: MBLK

PQL

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

80

Client ID:

PBS

Batch ID: 8934

RunNo: 12795

Prep Date: 8/20/2013

Analysis Date: 8/21/2013

SeqNo: 364687

Units: mg/Kg

Analyte

%REC

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

ND 5.0

89.5

%RPD

Surr: BFB

890

Result

1000

120

Sample ID LCS-8934 Client ID:

LCSS

SampType: LCS Batch ID: 8934 TestCode: EPA Method 8015D: Gasoline Range

SPK value SPK Ref Val

SPK value SPK Ref Val

RunNo: 12795

95.5

Prep Date: 8/20/2013 Analysis Date: 8/21/2013

28

950

Result

28

950

Result

29

950

0

SeqNo: 364688

Units: mg/Kg

Analyte Surr: BFB

Gasoline Range Organics (GRO)

Result PQL

SPK value

25.00

1000

24.25

969.9

24.25

969.9

SPK Ref Val %REC 110

LowLimit 74.5

LowLimit

76

80

76

80

80

HighLimit 126

%RPD **RPDLimit**

Qual

Sample ID 1308743-013AMS

8/20/2013

SampType: MS

5.0

TestCode: EPA Method 8015D: Gasoline Range

120

Client ID: Prep Date:

BatchQC

Batch ID: 8934 Analysis Date: 8/21/2013

PQL

4.8

RunNo: 12795 SeqNo: 364691

Units: mg/Kg

156

120

HighLimit

RPDLimit

Qual

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Client ID:

Prep Date:

Surr: BFB

Sample ID 1308743-013AMSD

Gasoline Range Organics (GRO)

BatchQC

8/20/2013

SampType: MSD

Analysis Date: 8/21/2013

PQL

4.8

TestCode: EPA Method 8015D: Gasoline Range

%REC

116

97.8

Batch ID: 8934

0

RunNo: 12795 SegNo: 364692

118

98.4

Units: mg/Kg

156

120

%RPD

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD 1.81

RPDLimit 17.7 0 0

Qualifiers:

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

Value exceeds Maximum Contaminant Level.

Value above quantitation range

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308811

23-Aug-13

Client: Project:

Blagg Engineering LAWSON LS 1A

Sample ID MB-8934	Samp ⁻	Гуре: М Е	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 89	34	F	RunNo: 1	2795				
Prep Date: 8/20/2013	Analysis [Date: 8/	21/2013	S	SeqNo: 3	64706	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-Bromofluorohenzene	1.0		1 000		102	80	120			

Sample ID LCS-8934	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 89 :	34	F	RunNo: 1	2795				
Prep Date: 8/20/2013	Analysis D	Date: 8/	21/2013	9	SeqNo: 3	64707	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID 1308811-001AM	S SampT	ype: MS	1	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: NW Base 5-poin	t @ Batch	ID: 89 3	34	F	RunNo: 1	2795				
Prep Date: 8/20/2013	Analysis D	ate: 8/	21/2013	8	SeqNo: 3	64711	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9515	0.01610	117	67.3	145			
Toluene	1.1	0.048	0.9515	0.01478	115	66.8	144			
Ethylbenzene	1.2	0.048	0.9515	0.03728	118	61.9	153			
Xylenes, Total	4.0	0.095	2.854	0.5669	119	65.8	149			
Surr: 4-Bromofluorobenzene	1.1		0.9515		110	80	120			

Sample ID 1308811-001AM	SD SampT	ype: MS	D	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: NW Base 5-poir	nt @ Batch	ID: 89	34	F	RunNo: 1:	2795				
Prep Date: 8/20/2013	Analysis D	ate: 8/	21/2013	8	SeqNo: 3	64712	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.048	0.9515	0.01610	119	67.3	145	1.68	20	
Toluene	1.1	0.048	0.9515	0.01478	115	66.8	144	0.219	20	
Ethylbenzene	1.2	0.048	0.9515	0.03728	120	61.9	153	1.18	20	
Xylenes, Total	3.9	0.095	2.854	0.5669	118	65.8	149	0.774	20	
Surr: 4-Bromofluorobenzene	1.1		0.9515		111	80	120	0	0	

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 10 of 10



1140 Environmental malysis 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 O	rder Numb	er: 1308	811			Re	cptNo:	1
Received by/dat	e: <i>CN</i>	1 08/201	/3				******** * *** =.				
Logged By:	Anne Tho	ne	8/20/2013	9:50:00 A	M		am	Am	-		
Completed By:	Anne Tho	ne	8/20/2013				am	Am.	· 		
Reviewed By:	Æΰ		8/20/13	3			0,17	<i></i>			
Chain of Cus	tody							,			
1. Custody sea	ils intact on s	ample bottles?			Yes		No	. 🗆	Not Presen	nt 🗹	
2. Is Chain of C	Custody comp	lete?			Yes	V	No		Not Presen	ıt 🗌	
3. How was the	sample deliv	ered?			Cou	<u>ier</u>					
<u>Log In</u>											
4. Was an atte	mpt made to	cool the samples	7		Yes	¥	N	• 	N	а 🗌	
5. Were all san	nples receive	d at a temperature	e of >0°C to	o 6.0°C	Yes	V	No		N.A	\ _	
6. Sample(s) in	n proper conta	niner(s)?			Yes	✓	N	o 🗆			
7. Sufficient sa	mple volume	for indicated test(s)?		Yes	\checkmark	No	□	,		
8. Are samples	(except VOA	and ONG) proper	rly preserve	d?	Yes	Y	No	· 🗆			
9. Was preserv	ative added t	o bottles?	•		Yes		No	•	NA	. 🗆	•
10.VOA vials ha	ave zero head	space?			Yes		No	, <u> </u>	No VOA Vials	s 🗹 .	
11, Were any sa	ample contain	ers received broke	en?		Yes		No	•	# of preserve	.d	
12. Does paperv	work match he	uttle labele?			Yes		. No	, 🗆	bottles check		
·	•	ain of custody)			res		NC	,	lor pri.	(<2 or	>12 unless noted)
13. Are matrices	correctly ide	ntified on Chain of	Custody?		Yes	✓	No		Adjuste	ed?	
14. Is it clear wh						✓	No				
15. Were all hold (If no, notify	· .	e to be met? authorization.)			Yes	✓	No	· 🗆	Checked	d by:	
Special Hand	ling (if app	olicable)									
16. Was client no	otified of all d	screpancies with	this order?		Yes		No		N/A	√ ✓	
Person	Notified:			Date		en were backe			· · · · · · · · · · · · · · · · · · ·		
By Wh	om:		***************************************	Via:	_ ☐ eMa	il 🗀	Phone [Fax	☐ In Person		
Regard	ding:	ATTENDED TO THE PROPERTY OF THE PARTY OF THE									
Client I	Instructions:										
17. Additional re	emarks:	· .									
18. Cooler Info			-								
Cooler No				Seal No	Seal Da	ite	Signed	Ву			
1	1,9	Good Ye	s .		***************************************						·
Page 1 of	<u> </u>										

<u>C</u>	hain-	-of-Cι	istody Record	Turn-Around	Time:	By THU	es dan -2013				■_	ıaı			RIZA	e e e	•		a e i	AIT		
Client:	3LAGG	ENGINE	SERING INC.	□ Standard	X Rush		2013												MEI		AL)RY	,
	ZP A.	MERICA		Project Name) ;					-							tal.co			: E 🖦	, E.V. 1	1
Mailing	Address	PA	Box 97	LAWS	ion LS	1A			40	04 LI									1100			
			IM 87413	Project #:							•				•	-		M 87				
			52-1199	1			•)5-34							4107		y - 24		ુર્વ
email o				Project Mana	nger:					<u> </u>	7,	•										Т
	Package:] ´	Ruce			(8021)	s on	幫					S,	B's						
X Stan	dard		☐ Level 4 (Full Validation)	J -	CLAGG			8) s	(Ga	7 OS			SIMS)		PO	PCB'						
Accredi		□ Othe	er	Sampler: Onder	J. Blace				+ MTBE + TPH (Gas only)	O / DF	8.1)	14.1)			3,NO ₂ ,	/ 8082		2				ź
□ EDD	(Type)_			Samplestein	cerature: 470	Des			끭	(GR	d 41	d 50	or 6	tals	8	des		\ <u>\</u>			-	\
Date.	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT		BTEX + ME	BTEX + MTE	TPH 8015B (GRO / DRO / 10/150)	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	8260B (VOA)	8270 (Semi-VOA)	CHORIDE			Air Bubbles
15/2013	1120	SOIL	NW BASE 5- POWT	402×1	COOL		-oul	X		X									X	\top	\top	
1(1502	tt	NW BASE 5- POINT O. 12' NW SIDEWAL 5-PE COMP O. 4'-10	i.	1(-CUZ	メ		X									X	\top	_	\dagger
3/16/2013		1.1	METER BASE 3- Pt	17	1(703	×		X		\neg							X	+		+
11	1220	1(METER SIDEWAL 3-Pt @ 4-9' METER HORTH BASE 5-PE	13	l C		-cot	メ		メ									X	+	-	\dagger
19/2013	1125	и	METER NORTH BASE 5-PE	17	ęţ		705	X		X									x	1		
17	1130	ч	C 10' METERNATH SWEWAL 5-Pt 0 4-9	K	Ľ,		-ab	×		×									X			1
																			\rightarrow	\perp		\perp
														_						+	+	\downarrow
		<u> </u>															ļ		\dashv	\dashv	+	+
																			\rightarrow	\dashv	+	+
Date:	Time: (529	Relinquish	led by:	Received by:	ulilatis	Date 8/19/2013	Time 1529	Rem	narks	I 3:	В	اند	E	, >LA	66	J		,				
Date: 8 19 13	Time:	Refinquish	stu Wales	Received by:	6	Date (70/15	Time 1950				BP							EAL				
	necessary,	samples sub	mitted to Hall Environmental may be subc	contracted to other ad	ccredited laboratorie	$\Delta I \cup \nabla I I \cup \Delta I$	1950 as notice of this	possit	oility. /	Any su										report		_

Lab Order 1308A99

Date Reported: 8/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NW Corner Base 5-pt @ 12'

Collection Date: 8/23/2013 11:30:00 AM

Project: Lawson LS 1A Lab ID: 1308A99-001

Matrix: SOIL

Received Date: 8/24/2013 10:20:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	73	10		mg/Kg	1	8/27/2013 11:48:17 PM	1 9040
Surr: DNOP	85.7	63-147		%REC	1	8/27/2013 11:48:17 PM	1 9040
EPA METHOD 8015D: GASOLINE RAM	IGE					Analys	t: RAA
Gasoline Range Organics (GRO)	370	4.8		mg/Kg	1	8/27/2013 12:27:23 PM	1 9032
Surr: BFB	799	80-120	S	%REC	1	8/27/2013 12:27:23 PM	1 9032
EPA METHOD 8021B: VOLATILES						Analys	t: RAA
Benzene	0.27	0.048		mg/Kg	1	8/27/2013 12:27:23 PM	1 9032
Toluene	5.1	0.97		mg/Kg	20	8/27/2013 1:58:06 PM	9032
Ethylbenzene	2.3	0.048		mg/Kg	1	8/27/2013 12:27:23 PM	1 9032
Xylenes, Total	22	1.9		mg/Kg	20	8/27/2013 1:58:06 PM	9032
Surr: 4-Bromofluorobenzene	157	80-120	S	%REC	1	8/27/2013 12:27:23 PM	9032
EPA METHOD 300.0: ANIONS						Analyst	:.JRR
Chloride	ND	30		mg/Kg	20	8/27/2013 12:56:20 PM	9066

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit Ο
- 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

- Not Detected at the Reporting Limit Page 1 of 6 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Lab Order 1308A99

Date Reported: 8/29/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NW Corner Sidewall 5-pt @ 4'-9'

 Project:
 Lawson LS 1A
 Collection Date: 8/23/2013 11:45:00 AM

 Lab ID:
 1308A99-002
 Matrix: SOIL
 Received Date: 8/24/2013 10:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/28/2013 12:10:00 A	M 9040
Surr: DNOP	86.0	63-147	%REC	1	8/28/2013 12:10:00 A	M 9040
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/27/2013 2:28:20 PM	9032
Surr: BFB	97.8	80-120	%REC	1	8/27/2013 2:28:20 PM	9032
EPA METHOD 8021B: VOLATILES					Analys	st: RAA
Benzene	ND	0.048	mg/Kg	1	8/27/2013 2:28:20 PM	9032
Toluene	ND	0.048	mg/Kg	1	8/27/2013 2:28:20 PM	9032
Ethylbenzene	ND	0.048	mg/Kg	1	8/27/2013 2:28:20 PM	9032
Xylenes, Total	ND	0.096	mg/Kg	1	8/27/2013 2:28:20 PM	9032
Surr: 4-Bromofluorobenzene	95.2	80-120	%REC	1	8/27/2013 2:28:20 PM	9032
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	32	30	mg/Kg	20	8/27/2013 1:08:44 PM	9066

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 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308A99

29-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-9066

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: **PBS**

Batch ID: 9066

RunNo: 12938

Prep Date:

SeqNo: 369119

Units: mg/Kg

HighLimit

Analyte

8/27/2013

Analysis Date: 8/27/2013

PQL

1.5

1.5

%RPD

%RPD

%RPD

RPDLimit

Qual

Chloride

Client ID:

Result ND

Result

Result

36

14

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS

Batch ID: 9066

RunNo: 12938

Prep Date: 8/27/2013

Sample ID LCS-9066

Analysis Date: 8/27/2013

15.00

15.00

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

SeqNo: 369120

Units: mg/Kg

110

Analyte Chloride

POL

SPK value SPK Ref Val %REC

HighLimit LowLimit

90

LowLimit

58.8

RPDLimit

Qual

Sample ID 1308A82-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 9066

RunNo: 12938

95.6

Units: mg/Kg

109

Prep Date: 8/27/2013 Analysis Date: 8/27/2013

PQL

1.5

SeqNo: 369124 %REC

HighLimit

RPDLimit

Qual

Analyte Chloride

Sample ID 1308A82-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

93.4

Client ID: **BatchQC** Batch ID: 9066

RunNo: 12938

Prep Date: Analyte

8/27/2013

Analysis Date: 8/27/2013

PQL

1.5

SeqNo: 369125

Units: mg/Kg

RPDLimit Qual

Result

SPK value SPK Ref Val

21.79

21.79

HighLimit

Chloride

38

15.00

%REC 109

58.8

LowLimit

109

%RPD 6.44

20

Qualifiers:

Value exceeds Maximum Contaminant Level

Spike Recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308A99

29-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-9041	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 9041	RunNo: 12910
Prep Date: 8/26/2013	Analysis Date: 8/28/2013	SeqNo: 368925 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.5 10.00	85.4 63 147

Sample ID LCS-9041 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: Batch ID: 9041 RunNo: 12910 LCSS Prep Date: 8/26/2013 Analysis Date: 8/28/2013 SeqNo: 368926 Units: %REC Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 4.5 5.000 90.1 63 147

Sample ID MB-9040	SampT	SampType: MBLK TestCode: EPA Method 8						el Range (Organics			
Client ID: PBS	Batch	ID: 90 4	40	R								
Prep Date: 8/26/2013	Analysis D	ate: 8/	27/2013	S	69142	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		102	63	147					

Sample ID LCS-9040	Sampī	Type: LC	S	Tes	8015D: Dies	el Range (Organics								
Client ID: LCSS	Batch	Batch ID: 9040 RunNo: 12939													
Prep Date: 8/26/2013	Analysis D	Date: 8/	27/2013	S	SeqNo: 369144 U			Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	77.1	128								
Surr: DNOP	4.9		5.000		98.3	63	147								

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 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 13

1308A99 29-Aug-13

Client:

Blagg Engineering

Project:

Lawson LS 1A

Sample ID MB-9032	Samp	Гуре: М Е	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batci	h ID: 90	32	F	RunNo: 1	2935				
Prep Date: 8/26/2013	Analysis [Date: 8/	27/2013	SeqNo: 368982 U			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	1000		1000		100	80	120			
Sample ID LCS-9032	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batcl	h ID: 90	32	F	RunNo: 1	2935				
Prep Date: 8/26/2013	Analysis [Date: 8/	27/2013	S	SeqNo: 3	68983	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.3	74.5	126			
Surr: BEB	1000		1000		103	80	120			

Sample ID 1308A99-002AMS	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: NW Corner Side	wall Batch	ID: 90 :	32	Ŕ	lunNo: 1	2935						
Prep Date: 8/26/2013 Analysis Date: 8/27/2013				S	SeqNo: 3	68987	Units: mg/M	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	23	4.8	23.95	0	94.9	76	156					
Surr: BFB	1000		957.9		109	80	120					

Sample ID 1308A99-002AW	ชบารม: Gasc	oline Rang	e										
Client ID: NW Corner Side	wall Batc	h ID: 90	32	F	RunNo: 1	2935							
Prep Date: 8/26/2013 Analysis Date: 8/27/2013					SeqNo: 3	68988	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	23	4.8	23.95	0	95.5	76	156	0.630	17.7				
Surr: BFB	1000		957.9		105	80	120	0	0				

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

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#: 1308A99

29-Aug-13

Client: Project:

Blagg Engineering

Lawson LS 1A

Sample ID MB-9032	Sampi	ype: M	BLK	Tes						
Client ID: PBS	Batcl	n ID: 90	32	F	RunNo: 1	2935				
Prep Date: 8/26/2013	Analysis D)ate: 8/	: 8/27/2013 SeqNo: 369029			69029	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	1.1		1.000		107	80	120			

Sample ID LCS-9032	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batc	h ID: 90	32	F	RunNo: 1	2935									
Prep Date: 8/26/2013	Analysis [Date: 8/	27/2013	SeqNo: 369030			Units: mg/h								
Analyte	Result	PQL	SPK value	SPK Ref Val %REC LowLimit			HighLimit	%RPD	RPDLimit	Qual					
Benzene	0.87	0.050	1.000	0	87.1	80	120								
Toluene	0.87	0.050	1.000	0	87.5	80	120								
Ethylbenzene	ene 0.86 0.050 1.000 0 86.1 80		80	120											
Xylenes, Total	2.7	0.10	3.000	0 89.3 80			120								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 6 of 6



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 Numb	er: 1308A99		RcptNo:	1
Received by/date:	N8/24/13				
Logged By: Michelle Garcia	8/24/2013 10:20:00	AM	Michelle Con	· 2a)	
Completed By: Michelle Garcia	8/24/2013 11:34:53		Michelle Gan	•	
Reviewed By:	1 ,	MINI .	" purate you	ue)	
	08/27/13				
Chain of Custody				_	
1. Custody seals intact on sample Bottles?		Yes	No i	Not Present ✓	
2. Is Chain of Custody complete?		Yes : V :	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 temperal	ure of >0° C to 6.0°C	Yes 🗸	No !!	NA :	
6. Sample(s) in proper container(s)?		Yes 🤝	No i		
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 :	
10.VOA vials have zero headspace?		Yes	No '	No VOA Vials	
11. Were any sample containers received be	oken?	Yes ! ;	No 🗸	# of preserved	
			!	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No i i	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 w	ith this order?	Yes !!	No : :	NA 🗸	
Person Notified:	Date:	A Lambard and A State Community of State Community	Charles of the State of the Sta		•
By Whom:	Via:	,	Phone ; ; Fax	In Person	i :
Regarding:	and the second s	ATTEMPT TO THE PERSON OF THE P		TO THE STATE OF TH	:
Client Instructions:		The state of the s	and the second second second second second		:
17 Additional remarks:					
18. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 3.8 Good	Yes				

Chain-of-Custody Record Client: BLAGG ENGINEERING INC.				Turn-Around	Time:	BY WE	D.					IAI		=	NIXA	TE		DE M		NT		
Client:	BLAG	6 EN	16 NEERING INC.	□ Standard	Time: ≭ (Rush	8/28,	/ZO[3												-		AL RY	•
	BP A	1MER.	cA	Project Name	: .			F.				www	v.hall	lenv	ironr	ment	alico	רמר				
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QA/QC F	Package: dard		☐ Level 4 (Full Validation)	J.	BLAGG BLAGG			\$ (8021	(Gas or	及/02			SIMS)		PO ₄ ,SC	PCB's						
Accredi				Sampler: J	T. BLAGG			ME	H	٦.	=	\in	802		10 ₂ ,	082						
□ NEL	AP	□ Other	er	On feet with	B Yesuda	II.No		╽╽	<u>+</u>	ဂ္ဂ	418.1)	2.	or 8270		J., L	8/8		₹				15
□ EDD	(Type)_		•	Onfice Yes No. Sample Temperature 3 3 4 €				#	띪	9	4 bc	2d 5	0 0	stals	Ň,	ides	8		2		ļ	Σ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEA	IN: A99	BTEX + 丛耳BE + 土以 B'S (8021)	BTEX + MTBE + TPH (Gas only)	ТРН 8015В (GRO / DRO / <u>меф</u>)	TPH (Method	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
3/23/13	1130	Soy	NW CORNER BASE 5-pt @ 12 NW GRUER SIDEWALL 5-pt @ 4'-9'	40221	COOL		301	X		X	i								X			T
ίι	1145	u	S-PE @ 4-9	Į€	и		∞ 2	Х		X									X			Τ
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Date: Time: Relinquished by: 13/3 1323 134 3499 Date: Time: Relinquished by:		Received by: Date Time				Remarks: BILL BLA66																
Date: 8/23/13	1756	Mr	A Welb	abcontracted to other accredited laboratories. This serves as notice of this						•								<u>~</u>		Œ	<u> </u>	
1.	i necessary,	equibles and	whiten to have environmental may be subc	omacied to other at	colecited iapotatotie	a. IIIIS Serves	as nouce of this	possi	onity. A	MNY SL	in-cou	racted	ı data '	will be	cieari	ıy nota	ted or	i the ar	auytical	report.		