OIL CONS. DIV DIST. 3

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

State of New Mexico Energy Minerals and Natural Resources

AUG 11 2015

Form C-141 Revised August 8, 2011

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

			Rele	ease Notific	atio	on and Co	rrective A	ction	1				
						OPERA	ГOR		Initial	al Report	\boxtimes	Final Report	
Name of Co						Contact: Ste			0				
		Court, Farmi	ngton, N	M 87401			No.: 505-326-94						
Facility Nar	ne: Stewa	rt LS 8				Facility Typ	e: Natural gas v	well					
Surface Ow	ner: Feder	ral		Mineral C	wner	: Private			API No	. 30045091	25		
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the		West Line County: San Juan			1	
N	28	30N	10W	1,060	Sout	h	1,650	West					
		Lati	tude36	5.77838		Longitude	-107.89219						
				NAT	URI	E OF RELI	EASE						
Type of Rele							Release: unknow			Recovered: n			
Source of Re	lease: Belo	w Grade Tank	(BGT) -	95 bbl		The state of the s	lour of Occurrence	ce:			covery	: February 5,	
Was Immedia	ate Notice (Given?				unknown If YES, To	Whom?		2015; 11:	30			
			Yes [No Not Re	equirec								
By Whom?						Date and Hour:							
Was a Water	course Rea		Yes 🗵	No		If YES, Volume Impacting the Watercourse.							
If a Watercou	irse was Im	pacted, Descri	ibe Fully.	ķ									
Describe Cau	se of Probl	em and Remed	dial Action	n Taken.* SUPPI	EME	NTAL INFOR	RMATION						
				taminated soil wa									
	Laborator	y analysis the		ten.* The area of its of the excavati									
transported o	iisite ioi ui	sposar.											
				is true and comp									
				nd/or file certain r se of a C-141 repo									
				investigate and r									
or the environ	nment. In a	addition, NMC	CD accep	tance of a C-141									
federal, state,	or local la	ws and/or regu	ilations.				OII COM	CEDI	ATION	DIVICIO	126T	-/1	
	n	22					OIL CON	SERV	ATION	DIVISIC	ny		
Signature:	1	Mus)							//		1 -		
Printed Name	: Steve Mo	oskal				Approved by	Environmental S	pecialis	t: / on		M	1	
Title: Field E	nvironmen	tal Coordinato	r			Approval Dat	e: 6/12/10	5	Expiration 1	Date.			
E-mail Addre	ss: steven.	moskal@bp.cc	om			Conditions of Approval:				Attached			
Date: August	6, 2015		Phone: 5	505-326-9497									
		ets If Necess	ary	H11=1	- 1	r120		,					
				4100	1/	5152	54193	>					

BP America: Stewart LS 8

(N) Sec 28 – T30N – R10W API: 30-045-09125

San Juan County, New Mexico

Summary Record of Impact Remediation

February 5, 2015 Soils impacted with hydrocarbons encountered during upgrade of the 95 barrel BGT. Laboratory testing of soils immediately below the BGT determined the total petroleum hydrocarbon (TPH) content at 1,380 mg/Kg by U.S. EPA Method 8015B. Chlorides were tested at less than 30 mg/Kg and total BTEX was reported at 109 mg/Kg. The BGT was situated within a dense bedrock.

The site NMOCD/BLM closure standard was determined at 100 ppm TPH based on:

Horizontal Distance to dry arroyo 165 feet (20 points) Nearest Water Well > 1,000 feet (0 points) Depth to Groundwater Between >100 feet (0 points)

April 13, 2015 Work crew initiates excavation of site hydrocarbon impacts. The sandstone that surrounded the BGT was excavated to a size of 30' x 27' x 19.5' deep. A base grab sample field tested OVM = 109 ppm, South Sidewall 3-point composite field tested OVM = 1,048 ppm and West Sidewall 3-point composite field tested OVM = 1,076 ppm. Samples were submitted to Hall Environmental Labs for testing of TPH, BTEX and Chlorides:

Sample ID	Sample Date	Map ID	TPH 8015B (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Comments
Base Grab @ 19.5'	4/13/2015	1	ND	0.11	ND	
South Wall 3-pt 5' – 15'	4/13/2015	NA	290	9.06	ND	Subsequently Excavated
West Wall 3-pt 5' – 15'	4/13/2015	NA	2,300	45.1	ND	Subsequently Excavated

<u>April 15, 2015</u> Excavation size approximately 45'x40'x19.5 feet deep. All sidewall sampling field test elevated OVM readings and excavation is continued in all directions.

April 20, 2015 Excavation size approximately 70' x 50' x 19.5 feet deep. Collect sidewall and base samples for laboratory testing of TPH, BTEX and Chlorides:

for laboratory testing of 1111, BTEX and emorates.												
Sample ID	Sample Date	Map ID	TPH 8015B	Total BTEX	Benzene	Comments						
Sample 1D	Sample Date	Iviap ID	(mg/Kg)	(mg/Kg)	(mg/Kg)							
West Wall 3-pt 5' – 15'	4/20/2015	2	ND	ND	ND	Final Extent of Excavation to West						
South Wall 3-pt 5' – 15'	4/20/2015	3	ND	ND	ND	Final Extent of Excavation to South						
East Wall 3-pt 5' – 15'	4/20/2015	4	ND	ND	ND	Final Extent of Excavation to East						
South Base 3-pt @ 21'	4/20/2015	5	6	0.081	ND							

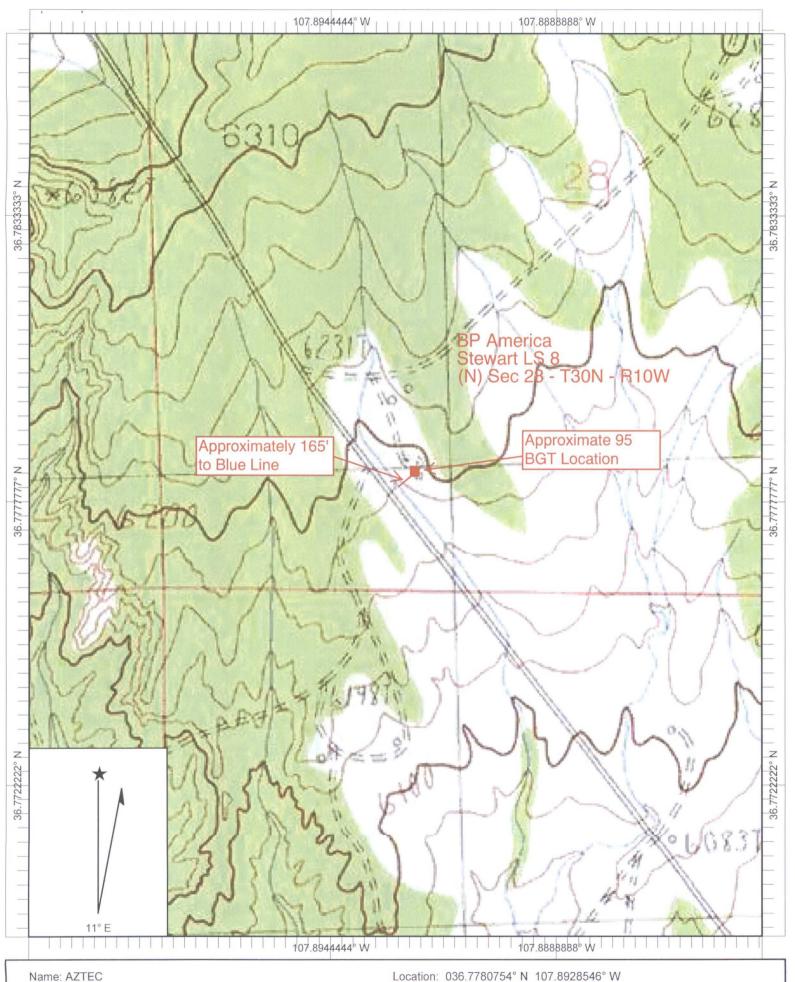
April 21, 2015 Excavation size approximately 78' x 60' x 19.5' deep. Collect north wall, north east wall and

north base samples for laboratory testing of TPH, BTEX and Chlorides:

Sample ID	Sample Date	Map ID	TPH 8015B (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Comments
North Wall - West 3-pt 5' - 15'	4/21/2015	6	ND	ND	ND	Final Extent of Excavation to NW
North Wall - East 3-pt 5' - 15'	4/21/2015	7	ND	ND	ND	Final Extent of Excavation to NE
East Wall - North 3-pt 5' - 15'	4/21/2015	8	ND	ND	ND	Final Extent of Excavation to NE
Base 3-pt @ 20' North East Area	4/21/2015	9	ND	ND	ND	

<u>April 28, 2015</u> Crew completes backfilling with clean fill. A replacement BGT (95 barrel double wall/double bottom) scheduled to be installed in the exact same location pursuant to an approved BGT permit. Approximate volume of soils removed and transported to BP Crouch Mesa Landfarm = 1,400 CY.





Date: 2/5/2015

Scale: 1 inch equals 666 feet



Lab Order 1504587

Date Reported: 4/17/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Base Grab @ 19.5'

Project: Stewart LS 8 Collection Date: 4/13/2015 2:20:00 PM

Lab ID: 1504587-001

Received Date: 4/14/2015 7:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	RGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/14/2015 10:25:38 AM	18676
Surr: DNOP	90.2	63.5-128	%REC	1	4/14/2015 10:25:38 AM	18676
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/16/2015 9:24:32 AM	18677
Surr: BFB	87.2	80-120	%REC	1	4/16/2015 9:24:32 AM	18677
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	4/15/2015 10:25:13 AM	18677
Toluene	ND	0.048	mg/Kg	1	4/15/2015 10:25:13 AM	18677
Ethylbenzene	ND	0.048	mg/Kg	1	4/15/2015 10:25:13 AM	18677
Xylenes, Total	0.11	0.096	mg/Kg	1	4/15/2015 10:25:13 AM	18677
Surr: 4-Bromofluorobenzene	99.7	80-120	%REC	1	4/15/2015 10:25:13 AM	18677
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/14/2015 12:56:00 PM	18688

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
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 8

- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order 1504587

Date Reported: 4/17/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID:

1504587-002

Stewart LS 8

Matrix: SOIL

Client Sample ID: South Wall 3-pt 5'-15'

Collection Date: 4/13/2015 2:25:00 PM

Received Date: 4/14/2015 7:10:00 AM

Analyses	Result	RL	Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE (ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	180	9.8		mg/Kg	1	4/14/2015 11:19:24 AM	18676
Surr: DNOP	101	63.5-128		%REC	1	4/14/2015 11:19:24 AM	18676
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	NSB
Gasoline Range Organics (GRO)	110	24		mg/Kg	5	4/16/2015 9:53:16 AM	18677
Surr: BFB	184	80-120	S	%REC	5	4/16/2015 9:53:16 AM	18677
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	4/15/2015 10:53:53 AM	18677
Toluene	ND	0.24		mg/Kg	5	4/15/2015 10:53:53 AM	18677
Ethylbenzene	0.46	0.24		mg/Kg	5	4/15/2015 10:53:53 AM	18677
Xylenes, Total	8.6	0.47		mg/Kg	5	4/15/2015 10:53:53 AM	18677
Surr: 4-Bromofluorobenzene	111	80-120		%REC	5	4/15/2015 10:53:53 AM	18677
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	4/14/2015 1:08:25 PM	18688

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

Qualifiers:

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

Page 2 of 8

- Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504587

Date Reported: 4/17/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/13/2015 2:30:00 PM

Lab ID: 1504587-003

Matrix: SOIL

Received Date: 4/14/2015 7:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS					Analys	t: BCN
Diesel Range Organics (DRO)	1000	10		mg/Kg	1	4/14/2015 11:46:14 AM	1 18676
Surr: DNOP	107	63.5-128		%REC	1	4/14/2015 11:46:14 AM	18676
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	1300	47		mg/Kg	10	4/16/2015 10:21:57 AM	1 18677
Surr: BFB	878	80-120	S	%REC	10	4/16/2015 10:21:57 AM	1 18677
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.24		mg/Kg	10	4/15/2015 11:22:35 AM	1 18677
Toluene	ND	0.47		mg/Kg	10	4/15/2015 11:22:35 AN	1 18677
Ethylbenzene	2.1	0.47		mg/Kg	10	4/15/2015 11:22:35 AN	1 18677
Xylenes, Total	43	0.94		mg/Kg	10	4/15/2015 11:22:35 AN	1 18677
Surr: 4-Bromofluorobenzene	137	80-120	S	%REC	10	4/15/2015 11:22:35 AN	1 18677
EPA METHOD 300.0: ANIONS						Analys	t: JRR
Chloride	ND	30		mg/Kg	20	4/14/2015 1:20:50 PM	18688

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

Qualifiers:

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

Page 3 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504587 17-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID MB-18688

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

LowLimit

Client ID:

PBS

Batch ID: 18688

PQL

RunNo: 25522

Prep Date:

4/14/2015

Analysis Date: 4/14/2015

SeqNo: 755890

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-18688

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 25522

%REC

Client ID: LCSS Prep Date: 4/14/2015 Batch ID: 18688

Analyte

Analysis Date: 4/14/2015

SeqNo: 755891

Units: mg/Kg

HighLimit

RPDLimit

Qual

Chloride

14

1.5 15.00

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

92.3

90

110

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

H

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH Not In Range

Reporting Detection Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504587 17-Apr-15

Client:

Blagg Engineering

Project:	Stewart L	LS 8								
Sample ID	MB-18676	SampType	: MBLK	Tes	stCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch ID:	18676	I	RunNo: 2	5490				
Prep Date:	4/14/2015	Analysis Date:	4/14/2015	;	SeqNo: 7	54944	Units: mg/l	(g		
Analyte		Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C Surr: DNOP	Organics (DRO)	ND 10	10 10.0	0	102	63.5	128			
Sample ID	LCS-18676	SampType	: LCS	Tes	tCode: EF	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID:	18676	-	RunNo: 2	5490				
Prep Date:	4/14/2015	Analysis Date:	4/14/2015		SeqNo: 7	54945	Units: mg/k	(g		
Analyte		Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	50	10 50.0	0 0	99.4	67.8	130			
Surr: DNOP		4.9	5.00	0	98.1	63.5	128			
Sample ID	1504587-001AMS	SampType	: MS	Tes	tCode: EF	PA Method	8015D: Dies	el Range (Organics	
Client ID:	Base Grab @ 19.5	Batch ID:	18676	F	RunNo: 2	5490				
Prep Date:	4/14/2015	Analysis Date:	4/14/2015		SeqNo: 7	55000	Units: mg/F	(g		
Analyte		Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	53	10 50.40	6.048	93.9	29.2	176			
Surr: DNOP		5.1	5.040)	100	63.5	128			
Sample ID	1504587-001AMSI	SampType	: MSD	Tes	tCode: EF	A Method	8015D: Dies	el Range C	Organics	
Client ID:	Base Grab @ 19.5	Batch ID:	18676	F	RunNo: 25	5490				
Prep Date:	4/14/2015	Analysis Date:	4/14/2015	5	SeqNo: 75	56198	Units: mg/k	(g		
Analyte				e SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)		9.8 49.12		91.4	29.2	176	4.62	23	
Surr: DNOP		5.0	4.912	2	102	63.5	128	0	0	

Qualifiers:

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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504587

17-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Project:	Stewart L	S 8									
Sample ID	MB-18677	SampType	e: ME	BLK	Test	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch ID	: 186	677	R	RunNo: 2	5555				
Prep Date:	4/14/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57250	Units: mg/l	\g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0	1000		05.4	9.0	120			
Surr: BFB		850		1000		85.4	80	120			
Sample ID	LCS-18677	SampType	: LC	S	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch ID	: 186	677	R	RunNo: 2	5555				
Prep Date:	4/14/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57251	Units: mg/h	(g		
Analyte			QL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	26 970	5.0	25.00 1000	0	102 97.1	64 80	130 120			
Sull. DFD		970		1000		97.1		120			
Sample ID	1504587-001AMS	SampType	: MS	i	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Base Grab @ 19.5	' Batch ID	: 186	677	R	RunNo: 2	5555				
Prep Date:	4/14/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57266	Units: mg/k	(g		
Analyte			QL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	23	4.8	23.99	0	97.4	47.9	144			
Surr: BFB		910		959.7		94.3	80	120			
Sample ID	1504587-001AMSE	SampType	: MS	D	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Base Grab @ 19.5	' Batch ID	: 186	677	R	tunNo: 2	5555				
Prep Date:	4/14/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57267	Units: mg/k	(g		
Analyte			QL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	24	4.8	23.97	0	98.5	47.9	144	0.966	29.9	
Surr: BFB		920		958.8		96.0	80	120	0	0	
Sample ID	MB-18710	SampType	: MB	BLK	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch ID	: 187	710	R	RunNo: 2	5555				
Prep Date:	4/15/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57273	Units: %RE	C		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		930		1000		93.2	80	120			
Sample ID	LCS-18710	SampType	: LC	S	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch ID	: 187	710	R	RunNo: 2	5555				
Prep Date:	4/15/2015	Analysis Date	: 4/	16/2015	S	SeqNo: 7	57274	Units: %RE	:C		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		95.8	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

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 Not In Range

RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504587

17-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID MB-18677	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 18	677	F	RunNo: 2	5529				
Prep Date: 4/14/2015	Analysis D	ate: 4/	15/2015	8	SeqNo: 7	56558	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	0.99		1.000		98.7	80	120			
Sample ID LCS-18677	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: 18	677	F	RunNo: 2	5529				
Prop Date: 4/44/2045	Analysis F	loto: Al	4 E / 2 D 4 E		CogNo: 7	ECEEO	Unite: mall			

Sample ID LCS-18677	Sampi	ype: LC	5	restcode: EPA Method 8021B: Volatiles								
Client ID: LCSS	RunNo: 25529											
Prep Date: 4/14/2015	Prep Date: 4/14/2015 Analysis Date: 4/15/2015						SeqNo: 756559 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.050	1.000	0	109	76.6	128					
Toluene	1.0	0.050	1.000	0	102	75	124					
Ethylbenzene	1.1	0.050	1.000	0	107	79.5	126					
Xylenes, Total	3.2	0.10	3.000	0	107	78.8	124					
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120					

Sample ID 1504587-002AM	6	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: South Wall 3-pt	5'-1 Batch	ID: 186	677	F	RunNo: 25529					
Prep Date: 4/14/2015	Analysis D	ate: 4/	15/2015	S	SeqNo: 756581 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.24	0.9452	0	100	69.2	126			
Toluene	1.2	0.24	0.9452	0.1609	110	65.6	128			
Ethylbenzene	1.7	0.24	0.9452	0.4592	129	65.5	138			
Xylenes, Total	14	0.47	2.836	8.554	183	63	139			S
Surr: 4-Bromofluorobenzene	5.4		4.726		114	80	120			

Sample ID 1504587-002AMS	SD SampT	ype: MS	Code: El	PA Method	8021B: Volat	iles						
Client ID: South Wall 3-pt	5'-1 Batch	ID: 18	677	RunNo: 25529								
Prep Date: 4/14/2015	Analysis Da	ate: 4/	15/2015	S								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.86	0.24	0.9470	0	91.3	69.2	126	8.92	18.5			
Toluene	1.1	0.24	0.9470	0.1609	102	65.6	128	6.45	20.6			
Ethylbenzene	1.6	0.24	0.9470	0.4592	124	65.5	138	2.77	20.1			
Xylenes, Total	2.841	8.554	207	63	139	4.98	21.1	S				
Surr: 4-Bromofluorobenzene	4.735		118	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 Not In Range
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504587

17-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID MB-18710 SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

80

Client ID: Prep Date:

4/15/2015

Batch ID: 18710

RunNo: 25555

Analysis Date: 4/16/2015

SegNo: 757283

Units: %REC

Analyte

Result

PQL

120

SPK value SPK Ref Val 1.000

SPK value SPK Ref Val %REC

%REC 92.4

HighLimit

RPDLimit Qual

Surr: 4-Bromofluorobenzene

Client ID:

Analyte

0.92

SampType: LCS

Batch ID: 18710

PQL

TestCode: EPA Method 8021B: Volatiles

RunNo: 25555

Prep Date: 4/15/2015

Sample ID LCS-18710

LCSS

Analysis Date: 4/16/2015

SeqNo: 757284

Units: %REC HighLimit

Qual

Result

1.000

103

LowLimit

%RPD **RPDLimit**

Surr: 4-Bromofluorobenzene

1.0

80

120

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND

Sample pH Not In Range

Н

Reporting Detection Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number: 1504587 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 4/14/2015 7:10:00 AM Lindsay Mangin 4/14/2015 7:21:09 AM Completed By: 4/14/15 NB Reviewed By: Chain of Custody Yes No 🗌 Not Present V 1. Custody seals intact on sample bottles? No Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA . 4. Was an attempt made to cool the samples? No . Yes V NA 5. Were all samples received at a temperature of >0° C to 6.0°C No No 🗌 6. Sample(s) in proper container(s)? Yes V 7. Sufficient sample volume for indicated test(s)? No . Yes V 8. Are samples (except VOA and ONG) properly preserved? Yes V No L No V NA _ 9. Was preservative added to bottles? No L No VOA Vials 10, VOA vials have zero headspace? Yes Yes No V 11. Were any sample containers received broken? # of preserved bottles checked No _ for pH: 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes V Yes V No 14. Is it clear what analyses were requested? Checked by: No . 15. Were all holding times able to be met? Yes V (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA V 16. Was client notified of all discrepancies with this order? No Person Notified: Date | eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C | Condition | Seal Intact | Seal No Seal Date Signed By

Good

C	hain-	of-Cu	stody Record	Turn-Around	Time:	SAME DAT							E 8			20	BIR		NT	AI	
Client:	BP A	MERICA	+	☐ Standard	Rush														ATC		
7	BLAGG			Project Name				2			www							1 4.1		,,,	
Mailing	Address:	P.O. 8	30× 97	STEWAR	T LS 8			49	01 H	awki								'109			
			NM 97413	Project #:		-				5-34							410				
Phone #	#: 54	0532	1193									Ar	naly	sis	Req	uest					
email o	Fax#:			Project Mana	ger:		=	nly)	g					04)	40						
QA/QC F ✓ Stan	Package: dard		□ Level 4 (Full Validation)	J.	BLAGE		's (8021)	(Gas only)	DRO / MRC)			IMS)		PO4,S	PCB's						
Accredi	tation	□ Othe	er		BLALL DYes	□ No	- AMB	- TPH	-	8.1)	14.1)	8270 S		3,NO ₂ ,	/ 8082		4				S Z
□ EDD	(Type)			Sample Tem		118		3E +	(GR	d 41	d 50	o	tals	8	des		/0/	W			2
Date	Time	Matrix		Type and #	Preservative Type		BTEX + MEN	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLOCADE	8		Air Bubbles (Y or N)
13/2015	1420	SOIL	BASE GRAB @ 19 2	40721	COUL	-001	X		×									X			
1(1425	"(BASE GRAB @ 19 2 South wall 3-ps West wall 3-pe	1,	ų	-002	X		×									×			
£(1430	11	West wall 3-pe 5'-15'	\(v	-003	×		×									×		I	
					1															土	
Date:	Time:	Relinquish Relinquish	1Blegg	Received by:	Ko	Date Time	Rei	mark	s:		PAK	Aet	: 5					4E			

Lab Order 1504847

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/20/2015 8:30:00 AM

Lab ID: 1504847-001

Matrix: MEOH (SOIL) Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/21/2015 10:32:14 A	M 18792
Surr: DNOP	80.9	57.9-140	%REC	1	4/21/2015 10:32:14 A	M 18792
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/21/2015 10:38:26 A	M 18764
Surr: BFB	87.9	80-120	%REC	1	4/21/2015 10:38:26 A	M 18764
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.047	mg/Kg	1	4/21/2015 10:38:26 A	M 18764
Toluene	ND	0.047	mg/Kg	1	4/21/2015 10:38:26 A	M 18764
Ethylbenzene	ND	0.047	mg/Kg	1	4/21/2015 10:38:26 A	M 18764
Xylenes, Total	ND	0.093	mg/Kg	1	4/21/2015 10:38:26 Al	M 18764
Surr: 4-Bromofluorobenzene	97.8	80-120	%REC	1	4/21/2015 10:38:26 Al	M 18764
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	ND	30	mg/Kg	20	4/21/2015 10:51:53 Al	M 18796

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 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504847

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Wall 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/20/2015 8:35:00 AM

Lab ID: 1504847-002

Matrix: MEOH (SOIL) Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/21/2015 10:53:31 AM	18792
Surr: DNOP	88.7	57.9-140	%REC	1	4/21/2015 10:53:31 AM	18792
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/21/2015 11:07:08 AM	18764
Surr: BFB	86.9	80-120	%REC	1	4/21/2015 11:07:08 AM	18764
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.039	mg/Kg	1	4/21/2015 11:07:08 AM	18764
Toluene	ND	0.039	mg/Kg	1	4/21/2015 11:07:08 AM	18764
Ethylbenzene	ND	0.039	mg/Kg	1	4/21/2015 11:07:08 AM	18764
Xylenes, Total	ND	0.077	mg/Kg	1	4/21/2015 11:07:08 AM	18764
Surr: 4-Bromofluorobenzene	95.6	80-120	%REC	1	4/21/2015 11:07:08 AM	18764
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	4/21/2015 11:04:17 AM	18796

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

Qualifiers:

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

Page 2 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504847

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Wall 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/20/2015 8:40:00 AM

Lab ID: 1504847-003

Matrix: MEOH (SOIL) Received

Received Date: 4/21/2015 7:30:00 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	4/21/2015 11:14:59 AM	18792
Surr: DNOP	89.1	57.9-140	%REC	1	4/21/2015 11:14:59 AM	18792
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	4/21/2015 11:35:56 AM	18764
Surr: BFB	87.5	80-120	%REC	1	4/21/2015 11:35:56 AM	18764
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.042	mg/Kg	1	4/21/2015 11:35:56 AM	18764
Toluene	ND	0.042	mg/Kg	1	4/21/2015 11:35:56 AM	18764
Ethylbenzene	ND	0.042	mg/Kg	1	4/21/2015 11:35:56 AM	18764
Xylenes, Total	ND	0.085	mg/Kg	1	4/21/2015 11:35:56 AM	18764
Surr: 4-Bromofluorobenzene	96.3	80-120	%REC	1	4/21/2015 11:35:56 AM	18764
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/21/2015 11:16:42 AM	18796

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

Qualifiers:

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

Page 3 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504847

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Base 3-pt @ 21'

Project: Stewart LS 8

Collection Date: 4/20/2015 8:45:00 AM

Lab ID: 1504847-004

Matrix: MEOH (SOIL)

Received Date: 4/21/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	st: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2015 11:36:26 A	M 18792
Surr: DNOP	86.2	57.9-140		%REC	1	4/21/2015 11:36:26 A	M 18792
EPA METHOD 8015D: GASOLINE RAN	GE					Analys	st: NSB
Gasoline Range Organics (GRO)	6.0	3.9		mg/Kg	1	4/21/2015 10:09:44 A	M 18764
Surr: BFB	123	80-120	S	%REC	1	4/21/2015 10:09:44 A	M 18764
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	ND	0.039		mg/Kg	1	4/21/2015 10:09:44 Al	M 18764
Toluene	ND	0.039		mg/Kg	1	4/21/2015 10:09:44 Al	M 18764
Ethylbenzene	ND	0.039		mg/Kg	1	4/21/2015 10:09:44 Al	M 18764
Xylenes, Total	0.081	0.078		mg/Kg	1	4/21/2015 10:09:44 Al	M 18764
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	4/21/2015 10:09:44 Al	M 18764
EPA METHOD 300.0: ANIONS						Analys	t: JRR
Chloride	ND	30		mg/Kg	20	4/21/2015 11:29:07 Al	M 18796

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

Qualifiers:

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

Page 4 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504847

23-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID LCS-18796

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 18796

RunNo: 25659

Prep Date: 4/21/2015 Analysis Date: 4/21/2015

Units: mg/Kg

Analyte

PQL SPK value SPK Ref Val %REC

SeqNo: 760450

Result

0 92.4

HighLimit

RPDLimit

Qual

Chloride

14

1.5 15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

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

ND Not Detected at the Reporting Limit

P Sample pH Not In Range

Reporting Detection Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504847

23-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID MB-18792	SampType: MBI	LK	Tes	tCode: El	PA Method	8015D: Diese	el Range (Organics	
Client ID: PBS	Batch ID: 187	92	F	RunNo: 2	5632				
Prep Date: 4/21/2015	Analysis Date: 4/2	1/2015	S	SeqNo: 7	59849	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	8.5	10.00		84.8	57.9	140			
Sample ID LCS-18792	SampType: LCS	3	Tes	tCode: EF	PA Method	8015D: Diese	el Range (Organics	
Client ID: LCSS	Batch ID: 187	92	R	RunNo: 2	5632				
Prep Date: 4/21/2015	Analysis Date: 4/2	1/2015	S	SeqNo: 7	59851	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 10	50.00	0	93.3	67.8	130			
Surr: DNOP	4.7	5.000		94.5	57.9	140			

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 Not In Range
- RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504847

23-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Project: Stewart	L5 8			
Sample ID MB-18764	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	e
Client ID: PBS	Batch ID: 18764	RunNo: 25643		
Prep Date: 4/20/2015	Analysis Date: 4/21/2015	SeqNo: 760143	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-18764	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	е
Client ID: LCSS	Batch ID: 18764	RunNo: 25643		
Prep Date: 4/20/2015	Analysis Date: 4/21/2015	SeqNo: 760144	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25.00	0 105 64	130	
Surr: BFB	990 1000	98.9 80	120	
Sample ID MB-18803	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: PBS	Batch ID: 18803	RunNo: 25665		
Prep Date: 4/21/2015	Analysis Date: 4/22/2015	SeqNo: 761162	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	850 1000	85.0 80	120	
Sample ID LCS-18803	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: 18803	RunNo: 25665		
Prep Date: 4/21/2015	Analysis Date: 4/22/2015	SeqNo: 761163	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	940 1000	94.4 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 Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1504847

23-Apr-15

Client:

Blagg Engineering

Project: Stewar	t LS 8								
Sample ID MB-18764	SampType: M	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch ID: 18	3764	F	RunNo: 2	5643				
Prep Date: 4/20/2015	Analysis Date: 4	/21/2015	S	SeqNo: 7	60213	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	0.97	1.000		97.1	80	120			
Sample ID LCS-18764	SampType: L0	cs	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch ID: 18	764	R	RunNo: 2	5643				
Prep Date: 4/20/2015	Analysis Date: 4	/21/2015	S	SeqNo: 7	60214	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	110	76.6	128			
Toluene	1.0 0.050	1.000	0	105	75	124			
Ethylbenzene	1.1 0.050	1.000	0	110	79.5	126			
Xylenes, Total	3.3 0.10	3.000	0	109	78.8	124			
Surr: 4-Bromofluorobenzene	1.1	1.000		107	80	120			
Sample ID MB-18803	SampType: M	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch ID: 18	803	R	RunNo: 2	5665				
Prep Date: 4/21/2015	Analysis Date: 4	/22/2015	S	SeqNo: 7	61191	Units: %RE	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92	1.000		92.1	80	120			
Sample ID LCS-18803	SampType: L0	cs	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch ID: 18	803	F	RunNo: 2	5665				
Prep Date: 4/21/2015	Analysis Date: 4	/22/2015	S	SeqNo: 7	61192	Units: %RE	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		100	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 1EL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Na	ame:	BLAGG		Work Order Nur	nber. 150	4847		Rept	No: 1
Received	by/date	e: (K. 0	4/21/15					
Logged B	By:	Lindsay Mar	ngin	4/21/2015 7:30:00	AM (gray Alego		
Complete	ed By:	Lindsay Mar	ngin	4/21/2015 8:08:10) AM		Junely Hayer		
Reviewed		Vm.	Λ						
Chain o	f Cus	tody	The						
		Is intact on san	nple bottles?		Ye	s 🗌	No 🗌	Not Present	✓
		Custody comple			Ye	s 🗸	No 🗌	Not Present	
		sample delive			Co	urier			
Log In									
4. Was	an atte	mpt made to co	ool the samples?	,	Ye	s 🗸	No 🗌	NA	
5. Were	all san	nples received	at a temperature	of >0° C to 6.0°C	Ye	s 🗸	No 🗌	NA	
6. Samp	ple(s) ir	n proper contain	ner(s)?		Y	es 🗸	No 🗌		
7. Suffic	cient sar	mple volume fo	r indicated test(5)?	Ye	3 🗸	No 🗌		
8. Are sa	amples	(except VOA a	nd ONG) prope	rly preserved?	Ye	s V	No 🗌		_
9. Was j	preserv	ative added to	bottles?		Ye	S	No 🗸	NA	
10.VOA	vials ha	ave zero heads	pace?		Ye	s 🗌	No 🗆	No VOA Vials	✓
11. Were	any sa	ample containe	rs received brok	en?	Y	es	No 🗸	# of preserved	
12 Does	naner	vork match bott	tle tabels?		Ye	s V	No 🗆	bottles checke for pH:	
		pancies on cha							(<2 or >12 unless noted)
13. Are m	natrices	correctly ident	ified on Chain of	Custody?		s V	No 🗆	Adjusted	17
14. Is it c	lear wh	at analyses we	re requested?			s V	No 🗔	Chacked	huc
		ding times able customer for a			Ye	s Y	No 🗔	Checked	by.
Special	Hand	lling (if app	licable)						
			crepancies with	this order?	Y	es 🗌	No 🗆	NA	V
10, was			crepaticles with		-				
		n Notified:			ate ia: e	Mail	Phone Fax	In Person	
	By Wh	P.		V	ы	IIAICHI	Timene Cliev		
	Regard	Instructions:							
17. Addi		emarks:							
18. Coo									
	ooler N	The second second	Condition 5	Seal Intact Seal N	lo Sea	Date	Signed By		
1		3.3	Good Ye	es					

C	hain	of-Cu	stody Record	Turn-Around	Time:	SAME				ь	A		F	NV	TE	20	NA	ЛE	NT	ΔI
Client:	BP 1	America	U	☐ Standard	XRush															RY
(9)	RIAL	French		Project Name								v.hal								121
Mailing	Address	P.O.	Box 37	STEW	art LS	8		49	01 H	awki								109		
	Bear	+Fell	NM 27413	Project #:						5-34		975	F	ax	505-	345-	4107			
Phone :	#: 50	5-32	20 - 1183									A	naly	sis	Req	uest				
email o	r Fax#:			Project Mana			=	nly)	1	1				04)	.0					
QA/QC	Package:		☐ Level 4 (Full Validation)	5.	BLAGG		\$ (802	(Gas only)	\$ / 0			SIMS)		PO ₄ ,S	PCB's					
Accredi	itation	□ Othe	er .	Sampler: J	BLA66 X Yes	□ No	HAR	+ TPH	D/DF	418.1)	504.1)			,NO ₂	8082					2
	(Type)		er	Sample Tem		1 NO	-	+ 山	GR	418	200	or 8	als	NO3	es/		VOA	W	İ	o V
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX + MTBE + TMB's (8021)	BTEX + MTBE	TPH 8015B (GRO / DRO / WHR)	TPH (Method	EDB (Method	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHUR IDE		Air Bubbles (Yor N)
1/20/2015	0930	SOIL	West will 3-pe 5-15 South will 3-pe 5-15 EAST wall 3-pe 5-15 South BASE 3-pe	40221	Cecx	-001	×		×									×		
ц	0935	i(5-15	1(и	-002	×		×									×		
Lí	0940	1(EAST wall 3-pc	11	Lf	-003	×		×									×		
11	0845	· ·	E Zi	1/	4	-004	×		×									×		
																		1		
																		-		
Date:	Time:	Relinquish	4 15 begg	Received by: Received by:	Waeter	Date Time 4/20/15 / 1/237 Date Time	Rer	narks	3:	Bi Co.	NTA	BP et =	J Z	EFF	- Fi	Aci	2	=		
Date:	1841	M	estulibete		X.	AZIBIS 07	30													
	f necessary,	samples sub	omitted to Hall Environmental may be sub-	contracted to other a	credited aboratorie	es. This serves as notice of this	s possi	bility.	Any su	b-cont	racted	d data	will be	clear	y nota	ted on	the ar	nalytica	l report	

Lab Order 1504929

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: N Wall W 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/21/2015 12:20:00 PM

Lab ID: 1504929-001

Matrix: SOIL

Received Date: 4/22/2015 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/22/2015 10:08:08 AM	18826
Surr: DNOP	84.7	57.9-140	%REC	1	4/22/2015 10:08:08 AM	18826
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	4/22/2015 9:20:58 AM	R2566
Surr: BFB	86.6	80-120	%REC	1	4/22/2015 9:20:58 AM	R2566
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.039	mg/Kg	1	4/22/2015 9:20:58 AM	R2566
Toluene	ND	0.039	mg/Kg	1	4/22/2015 9:20:58 AM	R2566
Ethylbenzene	ND	0.039	mg/Kg	1	4/22/2015 9:20:58 AM	R2566
Xylenes, Total	ND	0.077	mg/Kg	1	4/22/2015 9:20:58 AM	R2566
Surr: 4-Bromofluorobenzene	95.3	80-120	%REC	1	4/22/2015 9:20:58 AM	R2566
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	4/22/2015 10:54:42 AM	18827

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 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504929

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: N Wall E 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/21/2015 12:25:00 PM

Lab ID:

1504929-002

Matrix: SOIL

Received Date: 4/22/2015 8:00:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE (ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/22/2015 10:35:05 AM	18826
Surr: DNOP	86.5	57.9-140	%REC	1	4/22/2015 10:35:05 AM	18826
EPA METHOD 8015D: GASOLINE RANG	SE.				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/22/2015 9:49:41 AM	R25665
Surr: BFB	85.9	80-120	%REC	1	4/22/2015 9:49:41 AM	R25665
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.038	mg/Kg	1	4/22/2015 9:49:41 AM	R25665
Toluene	ND	0.038	mg/Kg	1	4/22/2015 9:49:41 AM	R25665
Ethylbenzene	ND	0.038	mg/Kg	1	4/22/2015 9:49:41 AM	R25665
Xylenes, Total	ND	0.076	mg/Kg	1	4/22/2015 9:49:41 AM	R25665
Surr: 4-Bromofluorobenzene	93.6	80-120	%REC	1	4/22/2015 9:49:41 AM	R25665
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	4/22/2015 11:07:06 AM	18827

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

Page 2 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504929

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: E Wall N 3-pt 5'-15'

Project: Stewart LS 8

Collection Date: 4/21/2015 12:30:00 PM

Lab ID: 1504929-003

Matrix: SOIL

Received Date: 4/22/2015 8:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	ORGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/22/2015 11:02:08 AM	18826
Surr: DNOP	84.8	57.9-140	%REC	1	4/22/2015 11:02:08 AM	18826
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	4/22/2015 10:18:25 AM	R25665
Surr: BFB	85.9	80-120	%REC	1	4/22/2015 10:18:25 AM	R25665
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.041	mg/Kg	1	4/22/2015 10:18:25 AM	R25665
Toluene	ND	0.041	mg/Kg	1	4/22/2015 10:18:25 AM	R25665
Ethylbenzene	ND	0.041	mg/Kg	1	4/22/2015 10:18:25 AM	R25665
Xylenes, Total	ND	0.082	mg/Kg	1	4/22/2015 10:18:25 AM	R25665
Surr: 4-Bromofluorobenzene	93.1	80-120	%REC	1	4/22/2015 10:18:25 AM	R25665
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	4/22/2015 11:19:31 AM	18827

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

Qualifiers:

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

Page 3 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1504929

Date Reported: 4/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Stewart LS 8

Lab ID:

1504929-004

Matrix: SOIL

Client Sample ID: Base 3-pt @ 20' NE Area Collection Date: 4/21/2015 12:35:00 PM

Received Date: 4/22/2015 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	RGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/22/2015 11:29:12 AM	18826
Surr: DNOP	89.6	57.9-140	%REC	1	4/22/2015 11:29:12 AM	18826
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	4/22/2015 10:47:06 AM	R25665
Surr: BFB	87.4	80-120	%REC	1	4/22/2015 10:47:06 AM	R25665
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.042	mg/Kg	1	4/22/2015 10:47:06 AM	R25665
Toluene	ND	0.042	mg/Kg	1	4/22/2015 10:47:06 AM	R25665
Ethylbenzene	ND	0.042	mg/Kg	1	4/22/2015 10:47:06 AM	R25665
Xylenes, Total	ND	0.084	mg/Kg	1	4/22/2015 10:47:06 AM	R25665
Surr: 4-Bromofluorobenzene	94.9	80-120	%REC	1	4/22/2015 10:47:06 AM	R25665
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	4/22/2015 11:31:55 AM	18827

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

Qualifiers:

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

Page 4 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504929

23-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Sample ID MB-18827

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 18827

PQL

1.5

RunNo: 25690

%REC LowLimit

Prep Date:

4/22/2015

Analysis Date: 4/22/2015

SeqNo: 761434

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

ND

Result

Sample ID LCS-18827

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 25690

Client ID: LCSS Batch ID: 18827

Prep Date: 4/22/2015 Analysis Date: 4/22/2015

SeqNo: 761435

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Analyte

Result

SPK value SPK Ref Val %REC PQL

SPK value SPK Ref Val

1.5

Chloride

14

15.00

92.0

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Not Detected at the Reporting Limit

Sample pH Not In Range

Reporting Detection Limit

Holding times for preparation or analysis exceeded H

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504929

23-Apr-15

Client:

Blagg Engineering

Project:

Stewart LS 8

Froject. Stewart									
Sample ID MB-18826	SampType: MBLK	TestCode: EPA Method 8015D: I	Diesel Range Organics						
Client ID: PBS	Batch ID: 18826	RunNo: 25657							
Prep Date: 4/22/2015	Analysis Date: 4/22/2015	SeqNo: 760594 Units: I	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLin	mit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	8.4 10.00	84.3 57.9 1	40						
Sample ID LCS-18826	SampType: LCS	TestCode: EPA Method 8015D: I	Diesel Range Organics						
Client ID: LCSS	Batch ID: 18826	RunNo: 25657							
Prep Date: 4/22/2015	Analysis Date: 4/22/2015	SeqNo: 760595 Units: r	ng/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLin	mit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	47 10 50.00	0 93.2 67.8 1	30						
Surr: DNOP	4.1 5.000	82.2 57.9 1	40						
Sample ID MB-18778	SampType: MBLK	TestCode: EPA Method 8015D: I	Diesel Range Organics						
Client ID: PBS	Batch ID: 18778	RunNo: 25657							
Prep Date: 4/20/2015	Analysis Date: 4/22/2015	SeqNo: 760797 Units: 9	%REC						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLin	mit %RPD RPDLimit Qual						
Surr: DNOP	11 10.00	110 57.9 1	40						
Sample ID LCS-18778	SampType: LCS	TestCode: EPA Method 8015D: I	Diesel Range Organics						
Client ID: LCSS	Batch ID: 18778	RunNo: 25657							
Prep Date: 4/20/2015	Analysis Date: 4/22/2015	SeqNo: 760798 Units: 9	%REC						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLin	mit %RPD RPDLimit Qual						
Surr: DNOP	5.1 5.000	102 57.9 1	40						

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 Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1504929 23-Apr-15

Client:

Blagg Engineering

Project:	Stewart L	S 8			×						
Sample ID 5MI	L RB	SampTy	/ре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	S	Batch	ID: R2	25665	F	RunNo: 2	5665				
Prep Date:		Analysis Da	ate: 4/	22/2015	5	SeqNo: 7	61154	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	ND	5.0								
Surr: BFB		860		1000		85.7	80	120			
Sample ID 2.5	UG GRO LCS	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCS	SS	Batch	ID: R2	25665	F	RunNo: 2	5665				
Prep Date:		Analysis Da	ate: 4/	22/2015	8	SeqNo: 7	61155	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org	ganics (GRO)	25	5.0	25.00	0	100	64	130			
Surr: BFB		940		1000		94.4	80	120			
Sample ID MB	-18803	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	S	Batch	ID: 18	803	F	RunNo: 2	5665				
Prep Date: 4/2	21/2015	Analysis Da	ate: 4/	22/2015	S	SeqNo: 7	61162	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		850		1000		85.0	80	120			
Sample ID LCS	S-18803	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCS	SS	Batch	ID: 18	803	F	RunNo: 2	5665				
Prep Date: 4/2	21/2015	Analysis Da	ate: 4/	22/2015	S	SeqNo: 7	61163	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		940		1000		94.4	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 Not In Range
- RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1504929 23-Apr-15

Client:

Blagg Engineering

Project:	Stewart L	S 8									
Sample ID 5	SML RB	Samp1	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: F	PBS	Batcl	n ID: R2	5665	R	RunNo: 25665					
Prep Date:		Analysis D	ate: 4/	22/2015	S	SeqNo: 7	61187	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-Bromot	fluorobenzene	0.92		1.000		91.8	80	120			
Sample ID 1	100NG BTEX LCS	SampT	ype: LC	S	Test	Code: E	PA Method	8021B: Volat	tiles		
Client ID: L	css	Batcl	n ID: R2	5665	R	lunNo: 2	5665				
Prep Date:		Analysis D	ate: 4/	22/2015	S	SeqNo: 7	61188	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	112	76.6	128			
Toluene		1.1	0.050	1.000	0	112	75	124			
Ethylbenzene		1.1	0.050	1.000	0	113	79.5	126			
Xylenes, Total		3.4	0.10	3.000	0	112	78.8	124			
Surr: 4-Bromot	fluorobenzene	1.0		1.000		103	80	120			
Sample ID N	/IB-18803	Samp1	ype: ME	BLK	Test	Code: El	PA Method	8021B: Volat	tiles		
Client ID: F	PBS	Batch	n ID: 18	803	R	unNo: 2	5665				
Prep Date:	4/21/2015	Analysis D	ate: 4/	22/2015	S	SeqNo: 7	61191	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromot	fluorobenzene	0.92		1.000		92.1	80	120			
Sample ID L	CS-18803	SampT	ype: LC	S	Test	Code: El	PA Method	8021B: Volat	tiles		
Client ID: L	css	Batch	n ID: 18	803	R	lunNo: 2	5665				
Prep Date:	4/21/2015	Analysis D	ate: 4/	22/2015	S	seqNo: 7	61192	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromot	fluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Page 8 of 8

- Sample pH Not In Range P
- RL Reporting Detection Limit



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: 1504929		RcptNo:	1
Received by/date: 1 04/12/	15				
Logged By: Anne Thorne	4/22/2015 8:00:00 A	M	aone Am	_	
Completed By: Anne Thorne	4/22/2015		anne Ham	_	
Reviewed By:	04/22/19				
Chain of Custody	0 1/ - //				
1. Custody seals intact on sample bottle	s?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the sar	mples?	Yes 🗸	No 🗌	NA 🗌	
5. Were all samples received at a temper	erature 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	d test(s)?	Yes 🗸	No .		
8. Are samples (except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
9. Was preservative added to bottles?		Yes	No 🗸	NA 🗆	
10.VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials	
11. Were any sample containers received	d broken?	Yes	No 🗸	# of preserved	
		-		bottles checked	
12. Does paperwork match bottle labels?	4.1	Yes 🗸	No 🗌	for pH:	r >12 unless noted)
(Note discrepancies on chain of custo 13. Are matrices correctly identified on Cl		Yes 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were request		Yes 🗸	No 🗔	_	
15. Were all holding times able to be met	?	Yes 🗸	No 🗌	Checked by:	
(If no, notify customer for authorizatio	n.)		,L		
Special Handling (if applicable)					
16. Was client notified of all discrepancie	s with this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date				1
By Whom:	Via:	A 10.0 10.0 10.0	Phone Fax	In Person	
Regarding:				The second secon	
Client Instructions:	2 2 2 2	7127	A Company of the Comp		
17. Additional remarks:			,		_
18. Cooler Information					
Cooler No Temp °C Condition		Seal Date	Signed By		
1 1.0 Good	Yes				

C	hain-	of-Cu	stody Record	Turn-Around		41	HALL ENVIRON				BIR	AER	TA	1								
Client:	BP	AMERI	ch	☐ Standard	X Rush	SAME DAY		ANALYSIS LABORAT														
Mailing	Address	180 L	20. Box 87	STEWA	AT LS 8	3		40	04 1	www.hallenvironmental.com												
	Rin	A SIS	NM 27413	Project #:								ns NE - Albuquerque, NM 87109 5-3975 Fax 505-345-4107 Analysis Request										
Phone #			20-1183						31. 00	75-54	-3-3:									100		
email or				Project Manager:			_	+ TPH (Gas only)	1					(4)								
QA/QC F			☐ Level 4 (Full Validation)	J. BLAGG 1708					DRO / MRO)			SIMS)		PO ₄ ,SC	PCB's							
Accredi		□ Othe	er	Sampler: J. B. A6. On Ice: Yes D. No					~	18.1)	04.1)	8270 \$	45		03,NO2	s / 8082		(A)				Or NI
□ EDD	(Type)_			Sample Tem	perature: /	.0	NA.	LBE	3 (G	od 4	od 5	0 0	etals	Ž,	cide	(A)	i-V	STOR			>	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX ₹±101	BTEX + MTBE	TPH 8015B (GRO	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)	CHURIDE			Air Rihhlas	
1/2/2015	1220	5014	North wall- west 3-pt 5-15	402 × 1	COOL	-01	X		X									×				
CC	1225	u	North well - EAST 3-PD 5-15	14	ч	-02	×		×									X				
ı(1230	(1	3-PO 5-15 EAST WALL - NORTH 3-Pt 5-15	((13	-603	×		X									×			_	
FC	1235	6(3-Pt 5-15 BASE 3-Pt @ 20" NE AREA	1(10	-004	×		×									×			_	
																					_	
																					_	
																				\Box	_	
																					_	
Date: Date: Date:	Time:	Relinquish Relinquish	4 Blagg	Received by:	ti Walt	Date Time 4/21/2015 Date Time 04/22/15	Ren	L nark:	s:	Ce	uto		JE		₹£.						_	
12115	necessary	amples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratorie	es. This serves as notice of this	possil	bility.	Any sı	ub-conf	tracted	d data	will be	e clear	ly note	ated or	n the a	nalytical	report.			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-138 Revised March 12, 2007 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
BP America Production Co. * 200 Energy Court * Farmington, NM 87401
2. Originating Site: Stewart LS 8 - SW/4 Section 28, T30N, R10W 4/21/15 - 3410cy 4/20/15 - 3000cy
3. Location of Material (Street Address, City, State or ULSTR): SW/4 Section 28, T30N, R10W or Physical Address: 200 Energy Court, Farmington, NM 87401
4. Source and Description of Waste:
Hydrocarbon impacted soil due to condensate release 4/14/15 -/20 cm Estimated Volume 100 yd³/bbls Known Volume (to be entered by the operator at the end of the haul) 280 yd³/bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Jeff Peace representative or authorized agent for BP America Production Company do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. **Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load** **Property of the content of the conte
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste has characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, pasubpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous the appropriate items)
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in B 7
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, Jeff Peace I, representative for BP America Representative Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that representative samples of the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. 3 sof the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 1 19.15.36 NMAC.
6. Transporter: Crossfire
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: JFJ Landfarm) / Industrial Ecosystem, Inc. Permit No. NM 01-0010B
Address of Facility: # 49 CR 3150 Aztec, NM 87410
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfill ☐ Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
RINT NAME: NSelph TITLE: CLEXX DATE: 41315
SIGNATURE: 1 100 0 0 TELEPHON 505-632-1782 FAX NO.: 505-632-1876 or 505-334-1003

Surface Waste Management Facility Authorized Agent