OIL CONS. DIV DIST. 3

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

JUL 2 0 2017

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

			Rei	ease Notin	cation		orrective A	CHOIL				
				O	PERA	TOR			nitial Re	eport Final Report		
Name of Co	mpany: B	P			(Contact: Steve Moskal						
		Court, Farmi		M 87401		Telephone No.: 505-326-9497						
Facility Na	me: Floran	ce GC D 004	4A]	Facility Type: Natural gas well						
Surface Ow	ner: Feder	al		Mineral (Owner: I	Federal			API No	o. 3004522147		
				LOC	ATION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County: San Juan		
С	10	33N	09W	1,080	North		1,605	West		<u> </u>		
		Latitu	ide 36.	83008°		Longitude	-107.77145°)				
					THRE	OF REL						
Type of Rele	ase: Produc	ed water, oil a	and conde		UKE		Release: unknov	vn	Volume I	Recovered: none		
				red beneath 95 bl	ol BGT		Iour of Occurrence			Hour of Discovery: October 4,		
						unknown			2016; 12:			
Was Immedi	ate Notice (If YES, To	Whom?					
			Yes L	No Not R	equired							
By Whom?						Date and F		1 777				
Was a Water	course Read		Yes 🗵	l No		If YES, Vo	olume Impacting	the Water	course.			
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.'	k								
				n Taken.* During reated on site via			ons to replace the	onsite BC	Ts impa	cted soil was discovered below		
base of the ex	cavation ex	ceeded the cl	osure stan	dard of 1,000. A	pproxima	ately 275 gal	lons of 35% hydr	ogen pero	xide solu	90'x27' deep. The sandstone tion was applied to the base Attached is documentation of		
regulations a public health should their or or the enviro	or the environment. In a	are required to ronment. The ave failed to a	o report ar acceptant adequately OCD accep	nd/or file certain the of a C-141 reprint investigate and in	release no ort by the remediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a three the operator of	ctive actio deport" do reat to gro responsib	ns for rel es not rel und water ility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other		
Signature:	May	new					OIL CON	SERVA	TION	DIVISION		
Printed Name	Approved by Environmental Specialist							bu	one			
Title: Field E	nvironment	al Coordinato	r		1	Approval Dat	6/01/8:0	0) E	xpiration	Date:		
E-mail Addre	ess: steven.r	moskal@bp.co	om		(Conditions of	Approval:			Attached		
Date: July 2	0. 2017		Phone: 50	5-326-9497				_				
		ets If Necess										

OIL CONS. DIV DIST. 3

NUTITO 7338055

BP America Florance GC D 4A

(C) Sec 10 – T30N – R9W San Juan County, New Mexico API: 30-045-22147

Summary Record of Impact Remediation

October 4, 2016 Soils impacted with hydrocarbons encountered during removal of a 95 barrel BGT. Initial laboratory analysis of a composite sample of soil collected below the tank (6' below grade) tested total TPH at 5,270 mg/Kg.

Site Closure Standard Determined at 1,000 ppm TPH based on:

Depth to Groundwater based on BGT permit research > 100 feet (0 points) Distance to water well > 1,000' based on BGT permit research (0 points) Distance to dry wash < 1,000' based on site measurements (10 points)

Total Site Ranking: 10

<u>April 26, 2017</u> Begin site remediation via excavation at 95 BGT center. Prepare to treat impacted material onsite via soil shredding and chemical treatment.

May 1, 2017 Conduct witnessed sampling of Northwest and West sidewalls for closure.

May 4, 2017 Conduct witnessed sampling of Northeast, South and East sidewalls and base for closure. Excavation base on dense sandstone. Apply 275 gallons of 35% hydrogen peroxide to sandstone base. Sample 10 x 100 CY, 1 x 442 CY, 1 x 412 CY and 1 x 411CY treated soil piles for closure.

May 9, 2017 Sample 3 x 500 CY treated soil piles for closure.

May 11, 2017 Sample 2 x 300 CY treated soil piles for closure.

May 19, 2012 Complete backfilling of excavation. Final base of excavation approximately 55' x 35' x 27' deep (from original wellpad surface grade), with top perimeter of excavation approximately 90' x 70' with sloping to accommodate safe excavation practices.



Summary laboratory data from witnessed site sampling:

Sample ID	Date	TPH Total (mg/Kg)	BTEX Total (mg/Kg)	Benzene (mg/Kg)	Comments
Base Grab @ -26'	5/1/2017	1,850	15.1	ND	On Dense Sandstone Surface
1 – North Wall (west) (5-pt. comp) (4'-20')	5/1/2017	ND	ND	ND	
2 – West Wall (5- pt. comp) (4'-20')	5/1/2017	ND	ND	ND	
3 – South Wall (7-pt. comp) (10'-24')	5/4/2017	ND	ND	ND	
4 – East Wall (5-pt. comp)(10'-24')	5/4/2017	ND	ND	ND	
5 – North Wall (east) (5-pt. comp)(10'-24')	5/4/2017	ND	ND	ND	
6 – South Base @ 25' (5-pt. comp)	5/4/2017	1,800	3.61	ND	Residual impacts on sandstone surface treated with 275 gallons 35% peroxide
7 – South South Base @ 25' (5-pt. comp)	5/4/2017	ND	ND	ND	
NMOCD/BLM Closure Standard		1,000	50	10	

BP America Florance GC D 4A

(C) Sec 10 – T30N – R9W San Juan County, New Mexico API: 30-045-22147

Treated Soil Pile Test Results May 11, 2017

				Field		TPH	TPH	TPH	TPH	
Pile ID	Volume	Date	Date	OVM	BTEX	GRO	DRO	MRO	Total	Chloride
	(CY)	Created	Sampled	(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
TSP-1	100	5/2/2017	5/4/2017	19.9	ND	112	180	120	412	ND
TSP-2	100	5/2/2017	5/4/2017	33.5	0.49	32	150	110	292	ND
TSP-3	100	5/2/2017	5/4/2017	22.0	ND	21	110	99	230	ND
TSP-4	100	5/2/2017	5/4/2017	23.2	ND	27	190	140	357	ND
TSP-5	100	5/2/2017	5/4/2017	22.6	ND	18	98	79	195	ND
TSP-6	100	5/2/2017	5/4/2017	21.4	ND	21	440	300	761	ND
TSP-7	100	5/2/2017	5/4/2017	29.6	ND	33	640	420	1,093	ND
TSP-8	100	5/2/2017	5/4/2017	36.7	ND	32	490	340	862	ND
TSP-9	100	5/2/2017	5/4/2017	33.2	ND	30	470	330	830	ND
TSP-10	100	5/2/2017	5/4/2017	52.2	ND	22	380	290	692	ND
TSP-11	442	5/2/2017	5/4/2017	69.0	ND	44	620	480	1,144	ND
TSP-12	412	5/3/2017	5/4/2017	28.6	ND	28	370	280	678	ND
TSP-13	411	5/3/2017	5/4/2017	44.3	ND	28	570	430	1,028	ND
TSP-14	500	5/8/2017	5/9/2017	19.5	ND	ND	120	110	230	ND
TSP-15	500	5/8/2017	5/9/2017	11.6	ND	ND	120	100	220	ND
TSP-16	500	5/9/2017	5/9/2017	24.5	ND	ND	81	65	146	ND
TSP-17	300	5/9/2017	5/11/2017	7.8	ND	9.3	43	ND	52.3	ND
TSP-18	300	5/9-10/2017	5/11/2017	8.6	ND	11	85	61	157	ND

Site Closure Standard = 1,000 ppm total TPH Variance approved by regulatory agencies on TSP-7, TSP-11 and TSP-13

Excavation Closure Laboratory Reports



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

Website: www.hallenvironmental.com

May 03, 2017

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

RE: Florance GC D 4A

OrderNo.: 1705065

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/2/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705065

Date Reported: 5/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: North Wall - West Side 5-Point

 Project:
 Florance GC D 4A
 Collection Date: 5/1/2017 12:04:00 PM

 Lab ID:
 1705065-001
 Matrix: MEOH (SOIL)
 Received Date: 5/2/2017 8:00:00 AM

Analyses Result PQL Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 5/2/2017 10:35:57 AM 31522 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 9.9 mg/Kg 1 5/2/2017 9:18:45 AM 31516 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/2/2017 9:18:45 AM 31516 Surr: DNOP %Rec 112 70-130 5/2/2017 9:18:45 AM 31516 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.8 mg/Kg 5/2/2017 9:26:52 AM 31507 Surr: BFB 103 54-150 %Rec 1 5/2/2017 9:26:52 AM 31507 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.019 mg/Kg 5/2/2017 9:26:52 AM 31507 1 Toluene ND 0.038 mg/Kg 5/2/2017 9:26:52 AM 31507 Ethylbenzene ND 0.038 mg/Kg 5/2/2017 9:26:52 AM 31507 Xylenes, Total ND 0.076 mg/Kg 1 5/2/2017 9:26:52 AM 31507 Surr: 4-Bromofluorobenzene 122 66.6-132 %Rec 5/2/2017 9:26:52 AM 31507

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

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

Lab Order 1705065

Date Reported: 5/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 5-Point

Project: Florance GC D 4A

Collection Date: 5/1/2017 12:08:00 PM

Lab ID: 1705065-002

Matrix: MEOH (SOIL) Received

Received Date: 5/2/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/2/2017 10:48:21 AM	31522
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/2/2017 10:02:26 AM	31516
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/2/2017 10:02:26 AM	31516
Surr: DNOP	111	70-130	%Rec	1	5/2/2017 10:02:26 AM	31516
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	5/2/2017 9:50:44 AM	31507
Surr: BFB	98.4	54-150	%Rec	1	5/2/2017 9:50:44 AM	31507
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	5/2/2017 9:50:44 AM	31507
Toluene	ND	0.034	mg/Kg	1	5/2/2017 9:50:44 AM	31507
Ethylbenzene	ND	0.034	mg/Kg	1	5/2/2017 9:50:44 AM	31507
Xylenes, Total	ND	0.068	mg/Kg	1	5/2/2017 9:50:44 AM	31507
Surr: 4-Bromofluorobenzene	116	66.6-132	%Rec	1	5/2/2017 9:50:44 AM	31507

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

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

Lab Order 1705065

Date Reported: 5/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Base @ 26'

Project: Florance GC D 4A

Collection Date: 5/1/2017 12:35:00 PM

Lab ID: 1705065-003

Matrix: MEOH (SOIL) Received Date: 5/2/2017 8:00:00 AM

Analyses	Result	PQL (Qual Un	nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30	m	ng/Kg	20	5/2/2017 11:00:45 AM	31522
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	3				Analyst	JME
Diesel Range Organics (DRO)	1100	49	m	ıg/Kg	5	5/2/2017 10:49:54 AM	31516
Motor Oil Range Organics (MRO)	430	240	m	ıg/Kg	5	5/2/2017 10:49:54 AM	31516
Surr: DNOP	106	70-130	%	Rec	5	5/2/2017 10:49:54 AM	31516
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	320	19	m	ıg/Kg	5	5/2/2017 10:14:37 AM	31507
Surr: BFB	737	54-150	S %	Rec	5	5/2/2017 10:14:37 AM	31507
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.094	m	ıg/Kg	5	5/2/2017 10:14:37 AM	31507
Toluene	ND	0.19	m	ıg/Kg	5	5/2/2017 10:14:37 AM	31507
Ethylbenzene	1.1	0.19	m	g/Kg	5	5/2/2017 10:14:37 AM	31507
Xylenes, Total	14	0.37	m	g/Kg	5	5/2/2017 10:14:37 AM	31507
Surr: 4-Bromofluorobenzene	145	66.6-132	S %	Rec	5	5/2/2017 10:14:37 AM	31507

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705065

03-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31522

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 31522

RunNo: 42488

SPK value SPK Ref Val %REC LowLimit

Prep Date: 5/2/2017

Analysis Date: 5/2/2017

SeqNo: 1336569

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

PQL Result ND

Sample ID LCS-31522

SampType: Ics Batch ID: 31522

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 42488

HighLimit

Units: mg/Kg

Prep Date: Analyte

Client ID:

LCSS 5/2/2017

Analysis Date: 5/2/2017

SeqNo: 1336570 LowLimit

%RPD **RPDLimit**

PQL

SPK value SPK Ref Val 15.00

96.4

%REC

110

0

Chloride

14

Result

1.5

90

Qual

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Η

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

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

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

P

Reporting Detection Limit Sample container temperature is out of limit as specified Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705065

03-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31516	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	516	F	RunNo: 4	2482				
Prep Date: 5/2/2017	Analysis D	ate: 5/	2/2017	5	SeqNo: 1	335875	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			
Sample ID LCS-31516	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 31	516	F	RunNo: 4	2482				
Prep Date: 5/2/2017	Analysis D	ate: 5/	2/2017	8	SeqNo: 1	335876	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	94.4	63.8	116			
Surr: DNOP	4.5		5.000		89.4	70	130			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 5 of 7

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705065

03-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31507

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 31507

RunNo: 42487

Prep Date:

5/1/2017

Analysis Date: 5/2/2017

SeqNo: 1336368

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

PQL SPK value SPK Ref Val Result 5.0

%REC LowLimit HighLimit

Qual

Surr: BFB

1000

1000

101

150

RPDLimit

Sample ID LCS-31507

SampType: LCS

Analysis Date: 5/2/2017

PQL

0

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID:

Prep Date:

LCSS

5/1/2017

Batch ID: 31507

ND

SPK value SPK Ref Val

RunNo: 42487 SeqNo: 1336369

Units: mg/Kg

RPDLimit Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 24 1100

5.0 25.00 1000

96.9 113

%REC

76.4 54

LowLimit

54

HighLimit 125 150

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705065

03-May-17

Client: Project: Blagg Engineering Florance GC D 4A

Sample ID MB-31507

SampType: MBLK

ND

1.2

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 31507

RunNo: 42487

SPK value SPK Ref Val %REC LowLimit

Prep Date:

5/1/2017

Analysis Date: 5/2/2017

SeqNo: 1336375

Units: mg/Kg HighLimit

RPDLimit Qual

Qual

Qual

Analyte Benzene

Result PQL ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND

Xylenes, Total Surr: 4-Bromofluorobenzene

1.000

SPK value SPK Ref Val

1.000

1.000

1.000

3.000

1.000

118

66 6 132

Sample ID LCS-31507

SampType: LCS Batch ID: 31507

%REC

98.9

99.1

99.3

101

125

RunNo: 42487

TestCode: EPA Method 8021B: Volatiles

80

80

80

80

66.6

LowLimit

120

120

120

120

132

Prep Date:

Client ID:

LCSS 5/1/2017

Result

0.99

0.99

0.99

3.0

13

Analysis Date: 5/2/2017 **PQL**

0.025

0.050

0.050

0.10

0.10

SeqNo: 1336376

0

0

0

0

Units: mg/Kg

HighLimit %RPD **RPDLimit**

%RPD

Analyte Benzene Toluene Ethylbenzene

> Xylenes, Total Surr: 4-Bromofluorobenzene

Sample ID 1705065-001AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

RunNo: 42487

94.1

95.9

98.3

100

124

Client ID: Prep Date:

North Wall - West Si Batch ID: 31507

Units: mg/Kg

138

127

132

123

132

%RPD

RPDLimit

Analysis Date: 5/2/2017

SeqNo: 1336377 %REC

HighLimit

Analyte	Result	PQL	SPK value	SPK Ref V
Benzene	0.71	0.019	0.7559	0
Toluene	0.73	0.038	0.7559	0
Ethylbenzene	0.74	0.038	0.7559	0
Xylenes, Total	2.3	0.076	2.268	0
Surr: 4-Bromofluorobenzene	0.93		0.7559	

TestCode: EPA Method 8021B: Volatiles

LowLimit

61.5

71.4

70.9

76.2

66.6

Client ID:

Sample ID 1705065-001AMSD

North Wall - West Si

SampType: MSD Batch ID: 31507

RunNo: 42487

Prep Date:	Analysis [Date: 5/	2/2017	8	SeqNo: 1	336378	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7559	0	91.1	61.5	138	3.24	20	
Toluene	0.71	0.038	0.7559	0	93.4	71.4	127	2.72	20	
Ethylbenzene	0.72	0.038	0.7559	0	95.6	70.9	132	2.85	20	
Xylenes, Total	2.2	0.076	2.268	0	96.9	76.2	123	3.50	20	
Surr: 4-Bromofluorobenzene	0.90		0.7559		119	66.6	132	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits I

Page 7 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



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

Albuquerque, NM 87109 Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **BLAGG** Work Order Number: 1705065 RcptNo: 1 Received By: Sophia Campuzano 5/2/2017 8:00:00 AM Completed By: 5/2/2017 8:21:52 AM **Andy Jansson** 05/02/17 Reviewed By: Chain of Custody No 🗌 Yes | 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 Yes V No 🗌 NA 🗌 4. Was an attempt made to cool the samples? NA 🗌 No 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V Yes V No 🗌 6. Sample(s) in proper container(s)? No 🗌 Yes 🗸 7. Sufficient sample volume for indicated test(s)? Yes V No 🗌 8. Are samples (except VOA and ONG) properly preserved? NA 🔲 Yes No 🗸 9. Was preservative added to bottles? No VOA Vials Yes No 🗌 10. VOA vials have zero headspace? Yes 11. Were any sample containers received broken? No V # of preserved bottles checked 12. Does paperwork match bottle labels? Yes V No for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14. Is it clear what analyses were requested? Checked by: Yes 🗸 No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date | By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 4.3 Good

Guani-OI-Gustody Record	DAP	HALL ENVERONMENTAL						
Client: BP America	☐ Standard Rush	HALL ENVIRONMENTAL ANALYSIS LABORATORY						
Blagg Englineery Iver Mailing Address:	Project Name:	www.hallenvironmental.com						
Mailing Address:	FLORANCE GC D 4A	4901 Hawkins NE - Albuquerque, NM 87109						
	Project #:	Tel. 505-345-3975 Fax 505-345-4107						
Phone #: (505) 320 - 1(93	1	Analysis Request						
email or Fax#:	Project Manager:							
QA/QC Package:	J. BLAGE	IB's (8021) 'H (Gas only) DRO / MRO)) 0 SIMS) 0 SIMS) 82 PCB's						
Standard		SIMS) SIMS) 22 PCB4, S						
Accreditation	Sampler: J- Blagy	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) Air Bubbles / Vor N)						
□ NELAP □ Other	Offices Vision V	E + TP+ GRO / C GRO / L 1504.1) or 8270 or 8270 NO ₃ ,NO les / 808						
□ EDD (Type)	Sample Temperature: 4.3	MTBE (GF 158 (
Data Tana Matrix Carranta Damarat D	Container Preservative	X + MTBE + TPI X + MTBE + TPI 8015B (GRO / I (Method 418.1) (Method 504.1) 's (8310 or 827C A 8 Metals ns (F,CI,NO ₃ ,NC Pesticides / 80 B (VOA) (Semi-VOA) (Semi-VOA)						
Date Time Matrix Sample Request ID	Type and # Type	BTEX + MTBE + TP BTEX + MTBE + TP TPH 8015B (GRO / TPH 8015B (GRO / TPH (Method 418.1) EDB (Method 504.1) EDB (Method 504.1) EDB (Method 504.1) AHY'S (8310 or 8270 RCRA 8 Metals Anions (F,CI,NO ₃ ,NO 8081 Pesticides / 80 8260B (VOA) 8270 (Semi-VOA) CHURINE						
1/2 1704 S. NORTH WAIT- WEST STOP	105065							
711 1609 2016 S-POINT	402=1 Ceoc -001							
1208 West Well 5-point 1235 BASE @ 26"	-002							
1235 BASE @ 26"	-003							
								
								
		 						
Date: Time: Relinquished by:	Received by: Date Time	Remarks: Bill BP Contact: Steve Morkal						
5/17 1500 1 Al Blogg	11. 11.	Remarks: Bill BP Contact: Steve Morkal VID: VHIXONEVRM						
Date: Time: Relinquished by:	Received by: Date Time	WBS Element: L1-0018M-E: 22147						
5/1/7 1801 Master Warter	Speli Cy 05/02/17 0800							
. / 1000	0-1	s possibility. Any sub-contracted data will be clearly notated on the analytical report.						



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

May 09, 2017

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

RE: Florance GC D 4A

OrderNo.: 1705311

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/5/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2017

CLIENT: Blagg Engineering

Client Sample ID: South Base @ 25'

Project: Florance GC D 4A

Collection Date: 5/4/2017 12:25:00 PM

Lab ID: 1705311-001

Matrix: MEOH (SOIL)

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 11:07:55 AM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	TOM
Diesel Range Organics (DRO)	1100	47		mg/Kg	5	5/5/2017 3:59:51 PM	31585
Motor Oil Range Organics (MRO)	560	240		mg/Kg	5	5/5/2017 3:59:51 PM	31585
Surr: DNOP	108	70-130		%Rec	5	5/5/2017 3:59:51 PM	31585
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	140	20		mg/Kg	5	5/5/2017 9:22:30 AM	G42579
Surr: BFB	340	54-150	S	%Rec	5	5/5/2017 9:22:30 AM	G42579
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.10		mg/Kg	5	5/5/2017 9:22:30 AM	B42579
Toluene	ND	0.20		mg/Kg	5	5/5/2017 9:22:30 AM	B42579
Ethylbenzene	0.41	0.20		mg/Kg	5	5/5/2017 9:22:30 AM	B42579
Xylenes, Total	3.2	0.41		mg/Kg	5	5/5/2017 9:22:30 AM	B42579
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	5	5/5/2017 9:22:30 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705311

Received Date: 5/5/2017 6:45:00 AM

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: South South Base (Tan) @ 25'

Project: Florance GC D 4A Collection Date: 5/4/2017 12:28:00 PM Matrix: MEOH (SOIL)

Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 5/5/2017 11:20:20 AM 31588 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 9.8 mg/Kg 1 5/5/2017 2:09:12 PM 31585 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/5/2017 2:09:12 PM 31585 Surr: DNOP 105 70-130 %Rec 5/5/2017 2:09:12 PM 31585 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.6 5/5/2017 9:46:34 AM G42579 mg/Kg Surr: BFB 95.3 54-150 %Rec 5/5/2017 9:46:34 AM G42579 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.018 mg/Kg 5/5/2017 9:46:34 AM B42579 Toluene ND 0.036 mg/Kg 5/5/2017 9:46:34 AM B42579 1 Ethylbenzene ND 0.036 mg/Kg 5/5/2017 9:46:34 AM B42579 Xylenes, Total ND 0.072 mg/Kg 5/5/2017 9:46:34 AM B42579 Surr: 4-Bromofluorobenzene 114 66.6-132 %Rec 5/5/2017 9:46:34 AM B42579

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

Qualifiers:

Lab ID:

1705311-002

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Florance GC D 4A

Client Sample ID: South Sidewall 7-pt

Collection Date: 5/4/2017 12:34:00 PM

Lab ID: 1705311-003 Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 11:32:45 AM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/5/2017 2:31:03 PM	31585
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/5/2017 2:31:03 PM	31585
Surr: DNOP	105	70-130	%Rec	1	5/5/2017 2:31:03 PM	31585
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	5/5/2017 10:10:36 AM	G42579
Surr: BFB	95.8	54-150	%Rec	1	5/5/2017 10:10:36 AM	G42579
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.020	mg/Kg	1	5/5/2017 10:10:36 AM	B42579
Toluene	ND	0.040	mg/Kg	1	5/5/2017 10:10:36 AM	B42579
Ethylbenzene	ND	0.040	mg/Kg	1	5/5/2017 10:10:36 AM	B42579
Xylenes, Total	ND	0.080	mg/Kg	1	5/5/2017 10:10:36 AM	B42579
Surr: 4-Bromofluorobenzene	112	66.6-132	%Rec	1	5/5/2017 10:10:36 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705311

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: East Sidewall 5-pt

Project: Florance GC D 4A

Collection Date: 5/4/2017 12:40:00 PM

Lab ID: 1705311-004 Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	40	30	mg/Kg	20	5/5/2017 11:45:09 AM	31588
EPA METHOD 8015M/D: DIESEL RANGI	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/5/2017 2:53:21 PM	31585
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/5/2017 2:53:21 PM	31585
Surr: DNOP	106	70-130	%Rec	1	5/5/2017 2:53:21 PM	31585
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	5/5/2017 10:34:38 AM	G42579
Surr: BFB	101	54-150	%Rec	1	5/5/2017 10:34:38 AM	G42579
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	5/5/2017 10:34:38 AM	B42579
Toluene	ND	0.041	mg/Kg	1	5/5/2017 10:34:38 AM	B42579
Ethylbenzene	ND	0.041	mg/Kg	1	5/5/2017 10:34:38 AM	B42579
Xylenes, Total	ND	0.082	mg/Kg	1	5/5/2017 10:34:38 AM	B42579
Surr: 4-Bromofluorobenzene	112	66.6-132	%Rec	1	5/5/2017 10:34:38 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705311

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: North Sidewall (East) 5-pt Project: Florance GC D 4A Collection Date: 5/4/2017 12:46:00 PM

Lab ID: 1705311-005 Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 11:57:34 AM	31588
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/5/2017 3:15:28 PM	31585
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/5/2017 3:15:28 PM	31585
Surr: DNOP	108	70-130	%Rec	1	5/5/2017 3:15:28 PM	31585
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	5/5/2017 10:58:31 AM	G42579
Surr: BFB	98.6	54-150	%Rec	1	5/5/2017 10:58:31 AM	G42579
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.020	mg/Kg	1	5/5/2017 10:58:31 AM	B42579
Toluene	ND	0.041	mg/Kg	1	5/5/2017 10:58:31 AM	B42579
Ethylbenzene	ND	0.041	mg/Kg	1	5/5/2017 10:58:31 AM	B42579
Xylenes, Total	ND	0.082	mg/Kg	1	5/5/2017 10:58:31 AM	B42579
Surr: 4-Bromofluorobenzene	115	66.6-132	%Rec	1	5/5/2017 10:58:31 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31588

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 31588

RunNo: 42592

HighLimit

Prep Date: 5/5/2017

Analysis Date: 5/5/2017

SeqNo: 1339643

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-31588

LCSS

SampType: Ics Batch ID: 31588 TestCode: EPA Method 300.0: Anions

RunNo: 42592

Client ID: Prep Date:

5/5/2017

Analysis Date: 5/5/2017

SeqNo: 1339644

Units: mg/Kg

%RPD **RPDLimit**

Qual

SPK value SPK Ref Val %REC PQL

15.00

110

Analyte Chloride

Result 14

SPK value SPK Ref Val %REC LowLimit

Page 11 of 14

1.5

96.5

LowLimit

90

HighLimit

Qualifiers:

D

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Client: Project: Blagg Engineering

Florance GC D 4A

Sample ID LCS-31585

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

LCSS

Batch ID: 31585

RunNo: 42570

%RPD

%RPD

Prep Date: 5/5/2017

10

Units: mg/Kg

116

130

Analyte

Analysis Date: 5/5/2017 Result PQL SPK value SPK Ref Val

SeqNo: 1339186 %REC

LowLimit

63.8

70

HighLimit

RPDLimit

Qual

Surr: DNOP

Client ID:

Prep Date:

Surr: DNOP

Diesel Range Organics (DRO)

4.8 SampType: MBLK

49

Result

ND

ND

11

50.00 5.000

10.00

96.5

97.1

TestCode: EPA Method 8015M/D: Diesel Range Organics

PBS

5/5/2017

Sample ID MB-31585

Batch ID: 31585

Analysis Date: 5/5/2017

RunNo: 42570 SeqNo: 1339187

107

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

10 50

SPK value SPK Ref Val %REC LowLimit

0

130

Qualifiers:

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

Analyte detected in the associated Method Blank

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

54

Client ID: PBS

Batch ID: G42579

RunNo: 42579

Analysis Date: 5/5/2017

SeqNo: 1339451

Prep Date: Analyte

PQL

50

%REC

Units: mg/Kg

Gasoline Range Organics (GRO)

ND

Result

SPK value SPK Ref Val

SPK value SPK Ref Val

HighLimit

%RPD

RPDLimit

Qual

Surr: BFB

980

1000

25.00

1000

18.10

724.1

724 1

98.3

150

Sample ID 2.5UG GRO LCS

Sample ID 1705311-002AMS

Sample ID 1705311-002AMSD

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

Batch ID: **G42579**

PQL

5.0

RunNo: 42579

125

150

Prep Date:

Analysis Date: 5/5/2017

24

18

840

%REC

Units: mg/Kg

Analyte

Result

SeqNo: 1339452

96.8

114

HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO) Surr: BFB

1100

TestCode: EPA Method 8015D: Gasoline Range

0

Client ID: Prep Date:

South South Base (

SampType: MS

Batch ID: G42579

RunNo: 42579

LowLimit

76.4

54

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Analysis Date: 5/5/2017 Result PQL SPK value SPK Ref Val

SeqNo: 1339453 %REC

LowLimit 61.3

54

HighLimit %RPD 150

150

RPDLimit

Qual

Surr: BFB

SampType: MSD

36

101

116

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Prep Date:

Surr: BFB

South South Base (

Batch ID: G42579

RunNo: 42579

SeqNo: 1339454

54

Units: mg/Kg

RPDLimit Qual

Page 13 of 14

Analyte Gasoline Range Organics (GRO) Analysis Date: 5/5/2017 Result

18

800

PQL 3.6 18.10

SPK value SPK Ref Val 0

%REC

97.0

111

LowLimit 61.3 HighLimit 150 150

%RPD 3.80

0

20 0

Qualifiers:

D

ND

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

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Florance GC D 4A Project:

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B42579** RunNo: 42579

Prep Date: Analysis Date: 5/5/2017 SeqNo: 1339464 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result PQL Qual 0.025 ND Benzene

0.050 Toluene ND 0.050 Ethylbenzene ND ND 0.10 Xylenes, Total

Surr: 4-Bromofluorobenzene 1.2 1.000 117 66.6 132

Sample ID 100NG BTEX LCS TestCode: EPA Method 8021B: Volatiles SampType: LCS

RunNo: 42579 Client ID: LCSS Batch ID: **B42579**

Prep Date: Analysis Date: 5/5/2017 SeqNo: 1339465 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 0 93.1 80 120 Benzene 0.93 1.000 0 95.4 80 120 Toluene 0.95 0.050 Ethylbenzene 0.96 0.050 1.000 0 96.1 80 120 Xylenes, Total 3.0 0.10 3.000 0 98.4 80 120 Surr: 4-Bromofluorobenzene 1.2 1.000 121 66.6 132

Sample ID 1705311-003AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

RunNo: 42579 Client ID: South Sidewall 7-pt Batch ID: **B42579**

Prep Date: Analysis Date: 5/5/2017 SeqNo: 1339466 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.8006 61.5 0.76 0.020 0 94.4 138 Benzene 0 96.2 71.4 Toluene 0.77 0.040 0.8006 127 0 98.8 70.9 Ethylbenzene 0.79 0.040 0.8006 132 0.080 0 76.2 Xylenes, Total 24 2.402 101 123 Surr: 4-Bromofluorobenzene 0.96 0.8006 120 66.6 132

TestCode: EPA Method 8021B: Volatiles Sample ID 1705311-003AMSD SampType: MSD

Client ID: South Sidewall 7-pt Batch ID: **B42579** RunNo: 42579

Prep Date:	Analysis D)ate: 5/	5/2017	SeqNo: 1339467			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.020	0.8006	0	92.3	61.5	138	2.23	20	
Toluene	0.76	0.040	0.8006	0	94.7	71.4	127	1.56	20	
Ethylbenzene	0.78	0.040	0.8006	0	97.1	70.9	132	1.65	20	
Xylenes, Total	2.4	0.080	2.402	0	98.4	76.2	123	2.48	20	
Surr: 4-Bromofluorobenzene	0.94		0.8006		118	66.6	132	0	0	

Oualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank B

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 14 of 14

WO#:

1705311

09-May-17



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:	17053	311		RcptNo	o: .1
Received By:	Ashley Gallegos	5/5/2017 6:45:00 AM			SA 3		
					A		
Completed By:	Ashley Gallegos	5/5/2017 7:06:45 AM			3		
Reviewed By:	SPC JAY	05/05/17					
Chain of Cust	ody						
1. Custody seals	s intact on sample bottles?		Yes		No	Not Present ✔	
2. Is Chain of C	ustody complete?		Yes	V	No	Not Present	
3. How was the	sample delivered?		Cour	er			
Log In							
4. Was an atter	mpt made to cool the samp	les?	Yes	V	No	NA	
5. Were all sam	ples received at a tempera	ture of >0° C to 6.0°C	Yes	v	No	NA	
6. Sample(s) in	proper container(s)?		Yes	V	No		
7. Sufficient san	nple volume for indicated to	est(s)?	Yes	Y	No		
8. Are samples	(except VOA and ONG) pro	operly preserved?	Yes	V	No		
9. Was preserva	ative added to bottles?		Yes		No 🗸	NA	
10. VOA vials have	ve zero headspace?		Yes		No :	No VOA Vials	
11. Were any sa	mple containers received b	roken?	Yes		No 🗸	# of preserved bottles checked	
	ork match bottle labels? ancies on chain of custody	,	Yes	V	No	for pH: (<2	or >12 unless noted)
	correctly identified on Chair		Yes	V.	No :	Adjusted?	,
	at analyses were requested		Yes	~	No		
	ing times able to be met? customer for authorization.)		Yes	~	No 1	Checked by:	
Special Handl	ing (if applicable)						
16. Was client no	tified of all discrepancies v	vith this order?	Yes		No	NA 🗸	
Person	Notified:	Date	any param	C Black Aug	ni industración, se con se como resonarios del		
By Who	om:	Via:	eMa	iil	Phone Fax	in Person	
Regard	ing:	Albana Hadilar and Millian L. Markey, 1970 and 20 Millian Life Special and 20	And the second second	CALLED TO STATE OF	CONTRACTOR MICHAEL STRATE AT MICHAEL BALL	And an about the factor of the	
Client In	nstructions:	HE EAST CONTINUED TO THE STANKE TO THE ARMOUNT ONLY OF THE SEA HELD THE ARMOUNT ON A PER OF THE BE	Part L. Build Har	er was Eduly	STANDON PORTON WAS ARRESTED BY TO THE PROPERTY PARTY AND ARRESTED BY	personal per group, 5, 30 ° 5 ° 400 PA Standards and P P PF.	
17. Additional re	marks:						
18. Cooler Infor	1	Seal Intact Seal No 3	Seal Da	ite	Signed By		
1	1.2 Good	Yes	Jan De		Oighed by		

Chain-of-Custody Record			Turn-Around Standard	-	SAME														AL	
F	3.060	ENGINE	ering Inc.	Project Name	e:		ANALYSIS LABORATORY www.hallenvironmental.com									,,,,				
	Address		TAC.	FLORAN	cē 6C]	> 4A		400	14 LI									7100		
				Project #:						awkir 5-34				100			w 07 -410			
Phone :	# (50	5/37	0-1183				18 T	16	1. 50	3-34	J-38	THE REAL PROPERTY.	1		Req					
email or		1 00	0 110)	Project Mana	iger:	- 9		(<u>X</u>	0						- 2				T	
QA/QC Package:				J. T	-		(8021)	s on	MRO)			10		08,	PCB's					
Stan	dard		☐ Level 4 (Full Validation)	0. 2	D LAGG		8) 8	(Ga	00			SIMS)		PO,	PC					
Accredi		_		Sampler: J	- B:466		Times	PH	0	=	=	8270		NO	8082					
□ NEL		□ Othe	r	On Ice:	~	□ No	1 +1	+	380	418	504	or 82	S	103,	1 88		OA)			
□ EDD	(Type)_			Sample 1 em	perature: /.	3-0.1=1.2	MTBE	ITB	8	Pod	Pod	100	/leta	Cit	licide	(A)	V-in	当		
Date	Date Time Matrix Sample Request ID		Sample Request ID	Container	Preservative	HEAL No.	+	≥ +	3015	Met	Met	83	181	S (F	Pes	3 (%	(Ser	CHLOUNE		
Dato	111110	WIGHT	Cample Request 15	Type and #	Туре	1705311	BTEX	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	2		
14/17	i225	Soiz	South Bise @ 25	40241	COOL	-001	X	ш.	X		ш	-	I.	A	00	00	8	X		
1	1228		South South Base (Tan) 25'	1	i	-002	1		1									1		
	1234		South Sidewall 7-Pt			- 003	IT													
\top	1240		East Sidewall 5-pt			-004	1		T	\neg								1		
\top	1246		North Sidewall (East) 50		1	-005					\neg									\forall
	1140		TSP-1			-006	1		\sqcap											
	1143		TSP-Z			-007	1		\top	1	1									
	1146		T3P-3			-008			\top											
	1148		TSP-4			-009					\neg									
	1150		T3P-5			-010	1											1		
																			\Box	\top
												- :								
Date:	Time: 1925	Relinquish	ed by: Blogg	Received by:	+ Walt	5/4/7 455	1		V13	L E	HIX	ONE 9 -	VRM (2)	1						MOSEA
Date:	Time: 7037	Refinquish	ed by:	Received by	.ml	Date Time 7	I	SP	LES		RE	14					20			

Treated Soil Pile Laboratory Closure Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

May 09, 2017

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

RE: Florance GC D 4A OrderNo.: 1705311

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/5/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705311

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Lab ID:

Florance GC D 4A **Project:** 1705311-006

Client Sample ID: TSP-1

Collection Date: 5/4/2017 11:40:00 AM

Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 12:09:58 PM	31588
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	180	9.3	mg/Kg	1	5/5/2017 3:37:52 PM	31585
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	5/5/2017 3:37:52 PM	31585
Surr: DNOP	110	70-130	%Rec	1	5/5/2017 3:37:52 PM	31585
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	12	10	mg/Kg	5	5/5/2017 11:22:27 AM	G42579
Surr: BFB	169	54-150	S %Rec	5	5/5/2017 11:22:27 AM	G42579
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.051	mg/Kg	5	5/5/2017 11:22:27 AM	B42579
Toluene	ND	0.10	mg/Kg	5	5/5/2017 11:22:27 AM	B42579
Ethylbenzene	ND	0.10	mg/Kg	5	5/5/2017 11:22:27 AM	B42579
Xylenes, Total	ND	0.20	mg/Kg	5	5/5/2017 11:22:27 AM	B42579
Surr: 4-Bromofluorobenzene	117	66.6-132	%Rec	5	5/5/2017 11:22:27 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 14 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1705311

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID:

1705311-007

Client Sample ID: TSP-2

Collection Date: 5/4/2017 11:43:00 AM

Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 12:47:10 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3				Analyst	TOM
Diesel Range Organics (DRO)	150	9.3		mg/Kg	1	5/5/2017 3:03:38 PM	31585
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	5/5/2017 3:03:38 PM	31585
Surr: DNOP	88.2	70-130		%Rec	1	5/5/2017 3:03:38 PM	31585
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	32	17		mg/Kg	5	5/5/2017 11:46:21 AM	G42579
Surr: BFB	195	54-150	S	%Rec	5	5/5/2017 11:46:21 AM	G42579
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.087		mg/Kg	5	5/5/2017 11:46:21 AM	B42579
Toluene	ND	0.17		mg/Kg	5	5/5/2017 11:46:21 AM	B42579
Ethylbenzene	ND	0.17		mg/Kg	5	5/5/2017 11:46:21 AM	B42579
Xylenes, Total	0.49	0.35		mg/Kg	5	5/5/2017 11:46:21 AM	B42579
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	5	5/5/2017 11:46:21 AM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TSP-3

Project: Florance GC D 4A Collection Date: 5/4/2017 11:46:00 AM Lab ID: 1705311-008 Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 12:59:35 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	S			Analyst	TOM
Diesel Range Organics (DRO)	110	10	mg/Kg	1	5/5/2017 2:35:53 PM	31585
Motor Oil Range Organics (MRO)	99	50	mg/Kg	1	5/5/2017 2:35:53 PM	31585
Surr: DNOP	88.5	70-130	%Rec	1	5/5/2017 2:35:53 PM	31585
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	NSB
Gasoline Range Organics (GRO)	21	19	mg/Kg	5	5/5/2017 12:10:19 PM	G42579
Surr: BFB	174	54-150	S %Rec	5	5/5/2017 12:10:19 PM	G42579
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.096	mg/Kg	5	5/5/2017 12:10:19 PM	B42579
Toluene	ND	0.19	mg/Kg	5	5/5/2017 12:10:19 PM	B42579
Ethylbenzene	ND	0.19	mg/Kg	5	5/5/2017 12:10:19 PM	B42579
Xylenes, Total	ND	0.39	mg/Kg	5	5/5/2017 12:10:19 PM	B42579
Surr: 4-Bromofluorobenzene	118	66.6-132	%Rec	5	5/5/2017 12:10:19 PM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 14 J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1705311

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-4

Project: Florance GC D 4A

Collection Date: 5/4/2017 11:48:00 AM

Lab ID: 1705311-009 Matrix: MEOH (SOIL)

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 1:12:00 PM	31588
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	TOM
Diesel Range Organics (DRO)	190	9.9		mg/Kg	1	5/5/2017 2:08:08 PM	31585
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	5/5/2017 2:08:08 PM	31585
Surr: DNOP	87.4	70-130		%Rec	1	5/5/2017 2:08:08 PM	31585
EPA METHOD 8015D: GASOLINE RANG	iΕ					Analyst	: NSB
Gasoline Range Organics (GRO)	27	18		mg/Kg	5	5/5/2017 12:34:14 PM	G42579
Surr: BFB	200	54-150	S	%Rec	5	5/5/2017 12:34:14 PM	G42579
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.089		mg/Kg	5	5/5/2017 12:34:14 PM	B42579
Toluene	ND	0.18		mg/Kg	5	5/5/2017 12:34:14 PM	B42579
Ethylbenzene	ND	0.18		mg/Kg	5	5/5/2017 12:34:14 PM	B42579
Xylenes, Total	ND	0.36		mg/Kg	5	5/5/2017 12:34:14 PM	B42579
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	5	5/5/2017 12:34:14 PM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 14 J
- Sample pH Not In Range P
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705311-010

Client Sample ID: TSP-5

Collection Date: 5/4/2017 11:50:00 AM

Matrix: MEOH (SOIL) Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 1:24:24 PM	31588
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	TOM
Diesel Range Organics (DRO)	98	9.6		mg/Kg	1	5/5/2017 1:40:22 PM	31585
Motor Oil Range Organics (MRO)	79	48		mg/Kg	1	5/5/2017 1:40:22 PM	31585
Surr: DNOP	86.7	70-130		%Rec	1	5/5/2017 1:40:22 PM	31585
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	18	17		mg/Kg	5	5/5/2017 12:58:10 PM	G42579
Surr: BFB	178	54-150	S	%Rec	5	5/5/2017 12:58:10 PM	G42579
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.084		mg/Kg	5	5/5/2017 12:58:10 PM	B42579
Toluene	ND	0.17		mg/Kg	5	5/5/2017 12:58:10 PM	B42579
Ethylbenzene	ND	0.17		mg/Kg	5	5/5/2017 12:58:10 PM	B42579
Xylenes, Total	ND	0.33		mg/Kg	5	5/5/2017 12:58:10 PM	B42579
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	5	5/5/2017 12:58:10 PM	B42579

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31588

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

5/5/2017

5/5/2017

Batch ID: 31588

RunNo: 42592

SeqNo: 1339643

Units: mg/Kg

RPDLimit

Analyte

Analysis Date: 5/5/2017

SPK value SPK Ref Val %REC

LowLimit

HighLimit

%RPD

Qual

Chloride

Prep Date:

Result PQL

ND 1.5

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-31588

Batch ID: 31588 Analysis Date: 5/5/2017 RunNo: 42592

SeqNo: 1339644

Units: mg/Kg

RPDLimit

Page 11 of 14

Result 14

SPK value SPK Ref Val %REC PQL

LowLimit

HighLimit 110

1.5

15.00

96.5

%RPD

Chloride

Analyte

90

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

Value above quantitation range J

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit Sample container temperature is out of limit as specified

D

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID LCS-31585	SampT	SampType: LCS TestCode: EPA Met				PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	Batch ID: 31585 RunNo: 42570								
Prep Date: 5/5/2017	Analysis D	ate: 5/	5/2017	S	SeqNo: 1	339186	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	63.8	116			
Surr: DNOP	4.8		5.000		96.5	70	130			

Sample ID MB-31585	SampTi	ype: ME	OL IV	Tos	Codo: El	DA Mathad	904 EM/D. Di	and Bana	o Organias	
Sample ID WIB-31969	Sampi	ype. WE	DLK	ies	Code. El	PA Wethod	8015M/D: Die	eser Range	e Organics	
Client ID: PBS	Batch	ID: 31	585	R	lunNo: 4	2570				
Prep Date: 5/5/2017	Analysis D	ate: 5/	5/2017	S	SeqNo: 1	339187	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Qualifiers:

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

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705311

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

54

Client ID:

Batch ID: G42579

RunNo: 42579

Prep Date:

Analysis Date: 5/5/2017

Units: mg/Kg

Analyte

SeqNo: 1339451

Result PQL ND 5.0 SPK value SPK Ref Val %REC HighLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

980

1000

98.3

150

RPDLimit

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: G42579

PQL

5.0

RunNo: 42579

Units: mg/Kg

125

150

%RPD

Analyte

Prep Date:

Analysis Date: 5/5/2017

SPK value SPK Ref Val

SeqNo: 1339452 %REC

LowLimit HighLimit

Gasoline Range Organics (GRO) Surr: BFB

Result 24 1100

25.00 1000

18.10

724.1

18.10

724.1

96.8 114

0

0

0

76.4 54 %RPD **RPDLimit**

Qual

Sample ID 1705311-002AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date:

South South Base (

Batch ID: G42579 Analysis Date: 5/5/2017 RunNo: 42579

SeqNo: 1339453

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result 18 3.6

SPK value SPK Ref Val %REC

LowLimit

61.3

54

HighLimit 150 **RPDLimit**

%RPD

Qual

Qual

Surr: BFB

Sample ID 1705311-002AMSD

840

Result

18

800

SampType: MSD

101

116

TestCode: EPA Method 8015D: Gasoline Range

150

Client ID: Prep Date:

Analyte

Surr: BFB

South South Base (Batch ID: G42579

Analysis Date: 5/5/2017

PQL

3.6

RunNo: 42579

Units: mg/Kg

150

SPK value SPK Ref Val

SeqNo: 1339454 %REC LowLimit 97.0

111

HighLimit 61.3

54

%RPD 150 3.80

RPDLimit

0

20 0

Gasoline Range Organics (GRO)

Qualifiers:

S

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits

R Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- - Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705311

09-May-17

Qual

Qual

Client: Project: Blagg Engineering Florance GC D 4A

Sample ID RB SampType: MBLK Client ID: PBS Batch ID: **B42579** Prep Date: Analysis Date: 5/5/2017

Analyte Result PQL SPK value SPK Ref Val 0.025 Benzene ND Toluene ND 0.050 0.050 Ethylbenzene ND ND 0.10 Xylenes, Total

Surr: 4-Bromofluorobenzene 1.2 1.000 117 66.6

Sample ID 100NG BTEX LCS Client ID: LCSS

Prep Date:

SampType: LCS Batch ID: **B42579** TestCode: EPA Method 8021B: Volatiles

TestCode: EPA Method 8021B: Volatiles

LowLimit

Analysis Date: 5/5/2017

RunNo: 42579 SeqNo: 1339465

RunNo: 42579

%REC

SeqNo: 1339464

Units: mg/Kg

132

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Benzene 0.93 0.025 1.000 0 93.1 80 120 Toluene 0.95 0.050 1.000 0 954 80 120 Ethylbenzene 0.96 0.050 1.000 0 96.1 80 120 Xylenes, Total 3.0 0.10 3.000 0 98.4 80 120 Surr: 4-Bromofluorobenzene 12 1.000 121 66 6 132

Sample ID 1705311-003AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

South Sidewall 7-pt Client ID:

Batch ID: **B42579**

RunNo: 42579

Analysis Date: 5/5/2017

Prep Date: SeqNo: 1339466 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual Benzene 0.76 0.020 0.8006 0 94.4 61.5 138 Toluene 0.77 0.040 0.8006 0 96.2 71.4 127 Ethylbenzene 0.79 0.040 0.8006 0 98.8 70.9 132 Xylenes, Total 2.4 0.080 2.402 0 101 76.2 123 Surr: 4-Bromofluorobenzene 0.96 0.8006 120 66.6 132

Sample ID 1705311-003AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: South Sidewall 7-pt Batch ID: **B42579**

RunNo: 42579

F	Prep Date:	Analysis D)ate: 5/	5/2017	8	SeqNo: 1	339467	Units: mg/K	(g		
F	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
В	enzene	0.74	0.020	0.8006	0	92.3	61.5	138	2.23	20	
To	oluene	0.76	0.040	0.8006	0	94.7	71.4	127	1.56	20	
Et	hylbenzene	0.78	0.040	0.8006	0	97.1	70.9	132	1.65	20	
X	lenes, Total	2.4	0.080	2.402	0	98.4	76.2	123	2.48	20	
	Surr: 4-Bromofluorobenzene	0.94		0.8006		118	66.6	132	0	0	

Oualifiers:

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

Page 14 of 14



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

BLAGG Client Name: Work Order Number: 1705311 RcptNo: .1 Received By: **Ashley Gallegos** 5/5/2017 6:45:00 AM Completed By: Ashley Gallegos 5/5/2017 7:06:45 AM 05/05/17 Reviewed By: Chain of Custody Not Present ✔ No 1. Custody seals intact on sample bottles? Yes 2. Is Chain of Custody complete? Yes V No Not Present 3. How was the sample delivered? Courier Log In 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 No NA 6. Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? No Yes 8. Are samples (except VOA and ONG) properly preserved? No 9. Was preservative added to bottles? No NA Yes 10. VOA vials have zero headspace? Yes No No VOA Vials ✓ 11. Were any sample containers received broken? Yes No # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? No (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? No Checked by: 15. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes NA V No Person Notified: Date By Whom: Via: eMail Phone Fax in Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date 1.2 Good

Client: BP AMERICA BLAGG ENGINEERING INC. Mailing Address: Project Name: FLORANCE GC D 4A Project #: Phone #: (\$05) 320 - 1183 email or Fax#: QA/QC Package: Standard Level 4 (Full Validation) Accreditation Sampler: J. BLAGG	## ANALYSIS LABORATORY State
Project #: Phone #: (\$05) 320 - 1183 email or Fax#: QA/QC Package: Standard	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request (Cas only) Analysis Request (Cas only) (Cas o
Phone #: (SOS) 320 - 1183 email or Fax#: QA/QC Package: Standard	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request (Cas only) Analysis Request (Cas only) (Cas o
email or Fax#: QA/QC Package: Standard	We's (8021) H (Gas only) DRO / MRO) O SIMS) 1
QA/QC Package: Standard	TPH (Gas only) / DRO / MRO) / DRO / MRO) / 1) / 1) / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10
Standard	70 SIMS) 102-PO4,S(802-1) 11) 12) 13) 14) 15) 16) 170 SIMS) 18) 19) 19) 19) 19) 19) 19) 19) 19) 19) 19
Accorditation T P 446	# H H G (1) (1) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Sampler: 2 - D:A66	
□ NELAP □ Other □ On Ice: ▼Yes □ No	OA) Son 83 Ho
□ EDD (Type) Sample Temperature: /-3-0-/=	MTBE + MTBE + MTBE + 15B (GRC 15B (GRC 17B GRC
	BTEX + MHBE + TOUB'S BTEX + MHBE + TPH (TPH 8015B (GRO / DR TPH (Method 418.1) EDB (Method 504.1) EDB (Method 504.1) EDB (Method 504.1) EDB (Method 504.1) EDB (Wethod 504.1) EDB (Wethod 504.1) EDB (Wethod 504.1) CRCRA 8 Metals Anions (F.CI,NO ₃ ,NO ₂ ,I 8081 Pesticides / 8082 8260B (VOA) 8270 (Semi-VOA) CHLOCINE
	001 X X X
	002 1 1
The state of the s	003
	-004
	-005
	-006
1143 TSP-Z	007
1146 T3P-3 -C	008
1148 TSP-4 -1	09
1150 T3P-5	010
Date: Time: Relinquished by: Received by: / Date	Time Remarks: Bill BE CONTACT! STEVE MOSEAL
Date: Time: Refinquished by: Must Walt 5/4/- Date: Time: Refinquished by: Received by: Date: 02	WBS EVENEUT: L1-0018M-E: 22147
14/7 7037 V MISTIN WELL MANUELY A ALLE If necessary/samples submitted to Hall Environmental may be subcentracted to other accredited laboratories. This serve	as as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

May 09, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199 FAX (505) 632-3903

RE: Florance GC D 4A

OrderNo.: 1705315

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/5/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-6

Project: Florance GC D 4A

Collection Date: 5/4/2017 11:53:00 AM

Lab ID: 1705315-001

Matrix: SOIL

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 3:16:05 PM	31588
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	: TOM
Diesel Range Organics (DRO)	440	9.5		mg/Kg	1	5/8/2017 3:07:17 PM	31596
Motor Oil Range Organics (MRO)	300	48		mg/Kg	1	5/8/2017 3:07:17 PM	31596
Surr: DNOP	108	70-130		%Rec	1	5/8/2017 3:07:17 PM	31596
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	21	4.6		mg/Kg	1	5/8/2017 9:38:21 AM	31589
Surr: BFB	435	54-150	S	%Rec	1	5/8/2017 9:38:21 AM	31589
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	5/8/2017 9:38:21 AM	31589
Toluene	ND	0.046		mg/Kg	1	5/8/2017 9:38:21 AM	31589
Ethylbenzene	ND	0.046		mg/Kg	1	5/8/2017 9:38:21 AM	31589
Xylenes, Total	ND	0.093		mg/Kg	1	5/8/2017 9:38:21 AM	31589
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	5/8/2017 9:38:21 AM	31589

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705315-002 Client Sample ID: TSP-7

Collection Date: 5/4/2017 11:55:00 AM

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 3:28:30 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6				Analyst	TOM
Diesel Range Organics (DRO)	640	19		mg/Kg	2	5/8/2017 3:52:18 PM	31596
Motor Oil Range Organics (MRO)	420	95		mg/Kg	2	5/8/2017 3:52:18 PM	31596
Surr: DNOP	111	70-130		%Rec	2	5/8/2017 3:52:18 PM	31596
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	33	4.9		mg/Kg	1	5/8/2017 10:02:22 AM	31589
Surr: BFB	484	54-150	S	%Rec	1	5/8/2017 10:02:22 AM	31589
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	5/8/2017 10:02:22 AM	31589
Toluene	ND	0.049		mg/Kg	1	5/8/2017 10:02:22 AM	31589
Ethylbenzene	ND	0.049		mg/Kg	1	5/8/2017 10:02:22 AM	31589
Xylenes, Total	ND	0.098		mg/Kg	1	5/8/2017 10:02:22 AM	31589
Surr: 4-Bromofluorobenzene	130	66.6-132		%Rec	1	5/8/2017 10:02:22 AM	31589

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 12 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-8

Project: Florance GC D 4A

Collection Date: 5/4/2017 11:58:00 AM

Lab ID: 1705315-003

Matrix: SOIL

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 3:40:54 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3				Analyst	TOM
Diesel Range Organics (DRO)	490	19		mg/Kg	2	5/8/2017 4:14:45 PM	31596
Motor Oil Range Organics (MRO)	340	94		mg/Kg	2	5/8/2017 4:14:45 PM	31596
Surr: DNOP	107	70-130		%Rec	2	5/8/2017 4:14:45 PM	31596
EPA METHOD 8015D: GASOLINE RAN	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	32	4.8		mg/Kg	1	5/8/2017 10:26:24 AM	31589
Surr: BFB	487	54-150	S	%Rec	1	5/8/2017 10:26:24 AM	31589
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/8/2017 10:26:24 AM	31589
Toluene	ND	0.048		mg/Kg	1	5/8/2017 10:26:24 AM	31589
Ethylbenzene	ND	0.048		mg/Kg	1	5/8/2017 10:26:24 AM	31589
Xylenes, Total	ND	0.095		mg/Kg	1	5/8/2017 10:26:24 AM	31589
Surr: 4-Bromofluorobenzene	124	66.6-132		%Rec	1	5/8/2017 10:26:24 AM	31589

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705315-004

Client Sample ID: TSP-9

Collection Date: 5/4/2017 12:02:00 PM

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual U	U nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 3:53:19 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	S				Analyst	TOM
Diesel Range Organics (DRO)	470	20		mg/Kg	2	5/8/2017 4:37:15 PM	31596
Motor Oil Range Organics (MRO)	330	99		mg/Kg	2	5/8/2017 4:37:15 PM	31596
Surr: DNOP	108	70-130		%Rec	2	5/8/2017 4:37:15 PM	31596
EPA METHOD 8015D: GASOLINE RANG	SE .					Analyst	NSB
Gasoline Range Organics (GRO)	38	23		mg/Kg	5	5/8/2017 10:50:38 AM	31589
Surr: BFB	198	54-150	S	%Rec	5	5/8/2017 10:50:38 AM	31589
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	5/8/2017 10:50:38 AM	31589
Toluene	ND	0.23		mg/Kg	5	5/8/2017 10:50:38 AM	31589
Ethylbenzene	ND	0.23		mg/Kg	5	5/8/2017 10:50:38 AM	31589
Xylenes, Total	ND	0.46		mg/Kg	5	5/8/2017 10:50:38 AM	31589
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	5	5/8/2017 10:50:38 AM	31589

Matrix: SOIL

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Florance GC D 4A Project:

Lab ID: 1705315-005 Client Sample ID: TSP-10

Collection Date: 5/4/2017 12:05:00 PM

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 4:05:44 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	S			Analyst	: TOM
Diesel Range Organics (DRO)	380	19	mg/Kg	2	5/8/2017 5:00:03 PM	31596
Motor Oil Range Organics (MRO)	290	96	mg/Kg	2	5/8/2017 5:00:03 PM	31596
Surr: DNOP	106	70-130	%Rec	2	5/8/2017 5:00:03 PM	31596
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	22	4.8	mg/Kg	1	5/8/2017 11:14:50 AM	31589
Surr: BFB	391	54-150	S %Rec	1	5/8/2017 11:14:50 AM	31589
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/8/2017 11:14:50 AM	31589
Toluene	ND	0.048	mg/Kg	1	5/8/2017 11:14:50 AM	31589
Ethylbenzene	ND	0.048	mg/Kg	1	5/8/2017 11:14:50 AM	31589
Xylenes, Total	ND	0.096	mg/Kg	1	5/8/2017 11:14:50 AM	31589
Surr: 4-Bromofluorobenzene	126	66.6-132	%Rec	1	5/8/2017 11:14:50 AM	31589

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 12 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705315-006

Client Sample ID: TSP-11

Collection Date: 5/4/2017 12:08:00 PM

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	MRA
Chloride	ND	30		mg/Kg	20	5/5/2017 4:18:08 PM	31588
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	: TOM
Diesel Range Organics (DRO)	620	19		mg/Kg	2	5/8/2017 4:57:23 PM	31596
Motor Oil Range Organics (MRO)	480	94		mg/Kg	2	5/8/2017 4:57:23 PM	31596
Surr: DNOP	101	70-130		%Rec	2	5/8/2017 4:57:23 PM	31596
EPA METHOD 8015D: GASOLINE RAM	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	44	4.7		mg/Kg	1	5/8/2017 11:38:56 AM	31589
Surr: BFB	597	54-150	S	%Rec	1	5/8/2017 11:38:56 AM	31589
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	5/8/2017 11:38:56 AM	31589
Toluene	ND	0.047		mg/Kg	1	5/8/2017 11:38:56 AM	31589
Ethylbenzene	ND	0.047		mg/Kg	1	5/8/2017 11:38:56 AM	31589
Xylenes, Total	ND	0.095		mg/Kg	1	5/8/2017 11:38:56 AM	31589
Surr: 4-Bromofluorobenzene	130	66.6-132		%Rec	1	5/8/2017 11:38:56 AM	31589

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1705315 Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TSP-12

CLIENT: Blagg Engineering Florance GC D 4A Project:

Collection Date: 5/4/2017 1:13:00 PM

Lab ID: 1705315-007

Matrix: SOIL

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual Unit	s DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/l	(g 20	5/5/2017 4:30:32 PM	31588
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	370	19	mg/l	(g 2	5/8/2017 4:29:06 PM	31596
Motor Oil Range Organics (MRO)	280	93	mg/l	(g 2	5/8/2017 4:29:06 PM	31596
Surr: DNOP	104	70-130	%Re	c 2	5/8/2017 4:29:06 PM	31596
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	28	4.7	mg/l	(g 1	5/8/2017 12:02:50 PM	31589
Surr: BFB	450	54-150	S %Re	c 1	5/8/2017 12:02:50 PM	31589
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/l	(g 1	5/8/2017 12:02:50 PM	31589
Toluene	ND	0.047	mg/l	(g 1	5/8/2017 12:02:50 PM	31589
Ethylbenzene	ND	0.047	mg/l	(g 1	5/8/2017 12:02:50 PM	31589
Xylenes, Total	ND	0.094	mg/l	(g 1	5/8/2017 12:02:50 PM	31589
Surr: 4-Bromofluorobenzene	129	66.6-132	%Re	c 1	5/8/2017 12:02:50 PM	31589

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 12 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1705315

Date Reported: 5/9/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705315-008

Client Sample ID: TSP-13

Collection Date: 5/4/2017 1:18:00 PM

Received Date: 5/5/2017 6:45:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/5/2017 4:42:57 PM	31588
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	570	19	mg/Kg	2	5/8/2017 4:00:46 PM	31596
Motor Oil Range Organics (MRO)	430	95	mg/Kg	2	5/8/2017 4:00:46 PM	31596
Surr: DNOP	104	70-130	%Rec	2	5/8/2017 4:00:46 PM	31596
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	28	4.8	mg/Kg	1	5/8/2017 12:26:43 PM	31589
Surr: BFB	419	54-150	S %Rec	1	5/8/2017 12:26:43 PM	31589
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	5/8/2017 12:26:43 PM	31589
Toluene	ND	0.048	mg/Kg	1	5/8/2017 12:26:43 PM	31589
Ethylbenzene	ND	0.048	mg/Kg	1	5/8/2017 12:26:43 PM	31589
Xylenes, Total	ND	0.096	mg/Kg	1	5/8/2017 12:26:43 PM	31589
Surr: 4-Bromofluorobenzene	125	66.6-132	%Rec	1	5/8/2017 12:26:43 PM	31589

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705315

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31588

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 31588

RunNo: 42592

Prep Date:

Client ID:

Prep Date:

5/5/2017

Analysis Date: 5/5/2017

SeqNo: 1339643

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Chloride

PQL ND 1.5

Sample ID LCS-31588

SampType: Ics Batch ID: 31588

RunNo: 42592

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

Analyte

5/5/2017

LCSS

Analysis Date: 5/5/2017

Result

PQL

SPK value SPK Ref Val %REC

96.5

LowLimit

HighLimit

RPDLimit

Qual

1.5

15.00

SeqNo: 1339644

%RPD

Chloride

14

110

Qualifiers:

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

RL

Reporting Detection Limit Sample container temperature is out of limit as specified Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705315

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31596	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	596	F	unNo: 4	2598				
Prep Date: 5/5/2017	Analysis D	ate: 5/	8/2017	S	eqNo: 1	340115	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID LCS-31596	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: 31	596	R	RunNo: 4	2598					
Prep Date: 5/5/2017	Analysis D	ate: 5/	8/2017	S	SeqNo: 1	340286	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	10	50.00	0	95.0	63.8	116				
Surr: DNOP	4.9		5.000		97.2	70	130				

Qualifiers:

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

Value above quantitation range

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705315

09-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31589

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 31589

RunNo: 42608

HighLimit

Prep Date: 5/5/2017

Analysis Date: 5/8/2017

SeqNo: 1340668

%REC

LowLimit

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Result PQL 5.0 ND

SPK value SPK Ref Val

SPK value SPK Ref Val

96.1

%RPD **RPDLimit** Qual

Client ID:

Prep Date:

Surr: BFB

960

1000

150

Sample ID LCS-31589

LCSS

5/5/2017

SampType: LCS Batch ID: 31589

Analysis Date: 5/8/2017

PQL

RunNo: 42608

SeqNo: 1340669

TestCode: EPA Method 8015D: Gasoline Range

Units: mg/Kg

%RPD

RPDLimit Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 1100

5.0 25.00 1000 99.0 111

%REC

54

LowLimit

HighLimit 125 150

Qualifiers:

D

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

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705315

09-May-17

Client: Project:

Blagg Engineering Florance GC D 4A

Sample ID MB-31589 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 31589 RunNo: 42608 Prep Date: 5/5/2017 Analysis Date: 5/8/2017 SeqNo: 1340679 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit Result HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene ND 0.050 Toluene Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 1.1 1.000 114 66.6 132

Sample ID LCS-31589	Samp	ype: LC	S	Tes	tCode: El	tiles				
Client ID: LCSS	Batcl	n ID: 31	589	F	RunNo: 4	2608				
Prep Date: 5/5/2017	Analysis D	Date: 5/	8/2017	S	SeqNo: 1	340680	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Qualifiers:

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

Page 12 of 12



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

Albuquerque, NM 87109 Sample Log-In Check List

	Tebshe. www.nar	TIET PITO		ur.com		
Client Name: BLAGG	Work Order Number:	17053	315		RcptNo	: 1
Received By: Ashley Gallegos Completed By: Ashley Gallegos	5/5/2017 6:45:00 AM 5/5/2017 7:29:15 AM			A		
Reviewed By: ENM/ AQ	05/05/17					
Chain of Custody						
1. Custody seals intact on sample bottles?		Yes		No	Not Present ✔	
2. Is Chain of Custody complete?		Yes	~	No	Not Present	
3. How was the sample delivered?		Cour	ier			
Log In						
Was an attempt made to cool the sample.	les?	Yes	V	No	NA	
5. Were all samples received at a temperate	ture of >0° C to 6.0°C	Yes	V	No .	NA ·	
6. Sample(s) in proper container(s)?		Yes	v	No		
7. Sufficient sample volume for indicated te	est(s)?	Yes	~	No		
8. Are samples (except VOA and ONG) pro	operly preserved?	Yes	V	No		
9. Was preservative added to bottles?		Yes	I	No 🗸	NA	
10.VOA vials have zero headspace?		Yes		No .	No VOA Vials ✓	
11. Were any sample containers received b	roken?	Yes		No 🗸	# of preserved	
12. Does paperwork match bottle labels?		Yes	V	No	bottles checked for pH:	
(Note discrepancies on chain of custody)					(<2 Adjusted?	or >12 unless noted)
13. Are matrices correctly identified on Chair		Yes		No	Adjustica	
14. Is it clear what analyses were requested. 15. Were all holding times able to be met?	,	Yes		No No	Checked by:	
(If no, notify customer for authorization.)		165	•	140		
Special Handling (if applicable)						
16. Was client notified of all discrepancies w	ith this order?	Yes	*	No .	NA V	
Person Notified:	Date	The Mark	JA Vele	AND TELEVISION CONTINUES		
By Whom:	Via:	eMa		Phone Fax	In Person	
Regarding:	na nation in Approximent and provide the state of the sta	Martin Balanti	leanil et li i i	alijat ja ja sei marij. Kinijaa kasasastinsti senakaika	PEL NASINETENES EN ENERGE CONTESTES AL SE 2.5.	
Client Instructions:	alle destroite d'était ain déalté in, le prophée 1960ain é an an tartait fréid i seirine.	Ze 1860, n til knicken fry	ming #15-360 . Ta	OT Seen Seef-Vertillite School tolking. 200 Miles II Californ Tables 1 rep	・ 送りたのはおなどを込み込み・春の間が見って出っることがごのでもラー・本とかがま。	
17. Additional remarks:						
18. Cooler Information Cooler No Temp °C Condition 1 1.2 Good	Seal Intact Seal No S	Seal Da	ate	Signed By		
· ·						

Clienti	hain-	of-Cu	stody Record	Turn-	Around	Time:		By Monday 5/8/17				ŀ	A	LL	E	NV	IR	20	N	ИE	NT	FAL	_
Client:	BP A	menic	9		tandard	Þ	Rush	40/11			6											OR	
_	BIAGO	· Eugir	neery Inc.		ct Name		7		1				www	v.hal	lenv	iron	ment	al.co	om				
Mailing	Address	. 0	0	1 1	LORAL	ICE G	CJ) 4A		49	01 H	lawk	ins N	E -	Alb	uque	erque	e, NI	M 87	109			
8				Projec	ct #:						el. 50					Sugar			410				
Phone #	# (505	5/320	-1183	1					D.					Д	naly	sis	Req	uest	t			13	86
email or				Projec	ct Mana	ger:			_	(ylu	(0)					()(No.						
QA/QC I	ackage:				7	Bu	A66		3021	IS OI	/ MF			3		, SC	PCB's						
□ Stan			☐ Level 4 (Full Validation)						15 (8	(G8	RO			SIMS)		PO.	2 PC						
Accredi		E Other	-	Samp	THE RESERVE OF THE PARTY OF THE	J.B			HMB's (8021)	TH	0/0	÷.	E	322.5		8	808						Î
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	(Type)_			Samp	ie tem	peratur	e. 1.3	01(07)-12	+4MTBE	ITB) B	hod	Pod	110	Aeta	5	ficid	(A)	y-in	3			08
Date	Time	Matrix	Sample Request ID	Con	tainer	Prese	rvative	HEAL No.	#	2	3015	Met	Met	\$ (83	181	S (F	Pes	3	(Ser	CHUNDE			pple
Duic	14110	Middle	Cample Request 15	Туре	and#	T	/pe	1705315	BTEX	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F.CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	2			Air Bubbles (Y or N)
5/4/17	1153	Soil	TSP-6	40	3 × 1	ce	206	-001	X	ш	X	2-6	ш	u	IL.	1	ω		ω.	X		\top	1
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	1202		T3P-9					-604														T	
	1205		TSP -10					-005															
	1208		TSP-11					-0010												1			
	1313		TSP-12					-007	П														
-	1318		TSP-13		1	1		- 008	1											1			
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5/4/2	2027	/ An	+ 1 last /	Val	1 1	inn	7-	05/05/17			pley	52				W.		bi					
1717	necessary,	samples subr	nitled to Hall Environmental may be subo	contracted	to other a	coredited	-	The same of the sa	_	-	-		_	-	_	clear				nalytic	al repor	et.	
		U			U	1	1	•															



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

May 12, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413 TEL: (505) 632-1199

FAX (505) 632-3903

RE: FLORANCE GC D 4A

OrderNo.: 1705513

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/10/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705513

Date Reported: 5/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TSP-14

Project: FLORANCE GC D 4A Collection Date: 5/9/2017 11:48:00 AM Lab ID: 1705513-001 Matrix: SOIL Received Date: 5/10/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/10/2017 10:11:29 AM	31661
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	120	9.6	mg/Kg	1	5/10/2017 9:27:18 AM	31659
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	5/10/2017 9:27:18 AM	31659
Surr: DNOP	111	70-130	%Rec	1	5/10/2017 9:27:18 AM	31659
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	5/10/2017 10:11:59 AM	31645
Surr: BFB	136	54-150	%Rec	5	5/10/2017 10:11:59 AM	31645
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.10	mg/Kg	5	5/10/2017 10:11:59 AM	31645
Toluene	ND	0.21	mg/Kg	5	5/10/2017 10:11:59 AM	31645
Ethylbenzene	ND	0.21	mg/Kg	5	5/10/2017 10:11:59 AM	31645
Xylenes, Total	ND	0.42	mg/Kg	5	5/10/2017 10:11:59 AM	31645
Surr: 4-Bromofluorobenzene	121	66.6-132	%Rec	5	5/10/2017 10:11:59 AM	31645

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

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

Lab Order 1705513

Date Reported: 5/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: FLORANCE GC D 4A

Lab ID: 1705513-002

Client Sample ID: TSP-15

Collection Date: 5/9/2017 11:54:00 AM

Received Date: 5/10/2017 7:30:00 AM

Analyses	Result	PQL (Qual U	nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30	n	ng/Kg	20	5/10/2017 10:23:53 AM	31661
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3				Analyst	TOM
Diesel Range Organics (DRO)	120	10	n	ng/Kg	1	5/10/2017 9:56:16 AM	31659
Motor Oil Range Organics (MRO)	100	50	n	ng/Kg	1	5/10/2017 9:56:16 AM	31659
Surr: DNOP	112	70-130	9	6Rec	1	5/10/2017 9:56:16 AM	31659
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	22	n	ng/Kg	5	5/10/2017 10:36:10 AM	31645
Surr: BFB	150	54-150	S %	6Rec	5	5/10/2017 10:36:10 AM	31645
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.11	n	ng/Kg	5	5/10/2017 10:36:10 AM	31645
Toluene	ND	0.22	n	ng/Kg	5	5/10/2017 10:36:10 AM	31645
Ethylbenzene	ND	0.22	n	ng/Kg	5	5/10/2017 10:36:10 AM	31645
Xylenes, Total	ND	0.44	n	ng/Kg	5	5/10/2017 10:36:10 AM	31645
Surr: 4-Bromofluorobenzene	118	66.6-132	9/	6Rec	5	5/10/2017 10:36:10 AM	31645

Matrix: SOIL

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

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

Lab Order 1705513

Date Reported: 5/12/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TSP-16

 Project:
 FLORANCE GC D 4A
 Collection Date: 5/9/2017 11:59:00 AM

 Lab ID:
 1705513-003
 Matrix: SOIL
 Received Date: 5/10/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	5/10/2017 10:36:18 AM	31661
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst:	TOM
Diesel Range Organics (DRO)	81	10	mg/Kg	1	5/10/2017 10:18:17 AM	31659
Motor Oil Range Organics (MRO)	65	50	mg/Kg	1	5/10/2017 10:18:17 AM	31659
Surr: DNOP	111	70-130	%Rec	1	5/10/2017 10:18:17 AM	31659
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	5/10/2017 11:00:30 AM	31645
Surr: BFB	147	54-150	%Rec	5	5/10/2017 11:00:30 AM	31645
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.086	mg/Kg	5	5/10/2017 11:00:30 AM	31645
Toluene	ND	0.17	mg/Kg	5	5/10/2017 11:00:30 AM	31645
Ethylbenzene	ND	0.17	mg/Kg	5	5/10/2017 11:00:30 AM	31645
Xylenes, Total	ND	0.34	mg/Kg	5	5/10/2017 11:00:30 AM	31645
Surr: 4-Bromofluorobenzene	116	66.6-132	%Rec	5	5/10/2017 11:00:30 AM	31645

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705513

12-May-17

Client: Blagg Engineering
Project: FLORANCE GC D 4A

Sample ID MB-31661 SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS Batch ID: 31661 RunNo: 42677

Prep Date: 5/10/2017 Analysis Date: 5/10/2017 SeqNo: 1342916 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-31661 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 31661 RunNo: 42677

Prep Date: 5/10/2017 Analysis Date: 5/10/2017 SeqNo: 1342917 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705513

12-May-17

Client:

Blagg Engineering

Project:

FLORANCE GC D 4A

Sample ID LCS-31659	SampTy	/pe: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: 31	659	R	tunNo: 4	2671					
Prep Date: 5/10/2017	Analysis Da	ate: 5/	10/2017	S	SeqNo: 1	342637	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	63.8	116				
Surr: DNOP	4.8		5.000		95.3	70	130				

Sample ID MB-31659	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	659	F	RunNo: 4	2671				
Prep Date: 5/10/2017	Analysis D	ate: 5/	10/2017	8	SeqNo: 1	342638	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Qualifiers:

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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705513

12-May-17

Client:

Blagg Engineering

Project:

FLORANCE GC D 4A

Sample ID MB-31645	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: 316	645	R	lunNo: 4	2687				
Prep Date: 5/9/2017	Analysis D	ate: 5/	10/2017	S	eqNo: 1	343155	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	1100		1000		106	54	150			

Sample ID LCS-31645	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	1D: 31	645	R	RunNo: 4	2687				
Prep Date: 5/9/2017	Analysis D	ate: 5/	10/2017	S	SeqNo: 1	343156	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76.4	125			
Surr RER	1300		1000		126	54	150			

Qualifiers:

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

Page 6 of 7

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705513

12-May-17

Client:

Blagg Engineering

Project:

FLORANCE GC D 4A

Sample ID MB-31645	SampT	ype: ME	BLK	Tes						
Client ID: PBS	Batch	1D: 31	645	R	RunNo: 4	2687				
Prep Date: 5/9/2017	Analysis D	ate: 5/	10/2017	S	SeqNo: 1	343246	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

Sample ID LCS-31645	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	1D: 31	645	F	RunNo: 4	2687					
Prep Date: 5/9/2017	Analysis D	ate: 5/	10/2017	S	SeqNo: 1	343247	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	95.7	80	120				
Toluene	0.97	0.050	1.000	0	96.9	80	120				
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120				
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120				
Surr: 4-Bromofluorobenzene	1.3		1.000		134	66.6	132			S	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 7 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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 Numbe	er: 1705513		RcptNo:	1
Received By:	Anne Thome	5/10/2017 7:30:00 A	М	ann Am	_	
Completed By:	Anne Thorne	5/10/2017 7:42:48 AI	M	anne Ham		
Reviewed By:	as	5/10/17		Cim Ji		
Chain of Cus	tody					
	ils intact on sample bo	ttles?	Yes	No 🗆	Not Present	
	Custody complete?		Yes 🗸	No 🗌	Not Present	
	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 ter	mperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) ir	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	mple volume for indica	ated test(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ON	G) properly preserved?	Yes 🗹	No 🗆		
9. Was preserv	rative 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	ved broken?	Yes	No 🗹	# of preserved	
40 -			🗖	N - 🗆	bottles checked for pH:	
	vork match bottle labe pancies on chain of cu		Yes 🗹	No 🗀		or >12 unless noted)
	correctly identified on	••	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear wh	at analyses were requ	ested?	Yes 🗸	No 🗆		
	ding times able to be no customer for authoriza		Yes 🗹	No 🗆	Checked by:	
Special Hand	ling (if applicable	9)				
16. Was client no	otified of all discrepan	cies with this order?	Yes	No 🗆	NA 🗹	***
Person	Notified:	Date				
By Wh	om:	Via:	eMail	Phone Fax	☐ In Person	
Regard	TATALON TO A COLUMN TO A COLUM	MC 2003 Calcaba Anno anno anno anno anno anno anno ann				
Client I	Instructions:					
17. Additional re	emarks:					
18. Cooler Info	1	tion Seal Intact Seal No	Seal Date	Signed By	I	
1	1.6 Good	Yes	- Sail Date	oigilou by		

Client:	BP A	menica	stody Record	□ Standard	Rush	SAME													NT		
Mailing	BLAGE Address	Engin	neary INC.	Project Name	e: Le GC	D 4A			Table 1				envir								
wiaming	Address	· ·		Project #:	12.2					awki				0.	-						
D	, ,-,	r. 7-	0-1103	Troject #.				Te	1. 50	5-34	5-39	-	-			345-4	1107				
email or		5- 26	20-1183	Project Mana	oer:			2	6			AI	nalys		equ	iest					
	ackage:			1	BLAGE		121)	luo	MRC	5.			8	SO	3,0						
Stan			☐ Level 4 (Full Validation)	2.	DEADO		s (80	Gas	103			SIMS	8	20	PCB's						
Accredit	tation		r	Sampler: S		□ No	H	TPH (O / DR	8.1)		8270 S	9	3,NO2,	/ 8082		-				ĝ
□ EDD				AND THE COMMENTS OF THE PARTY O		-CF1-0 = 1.4	II.	3E +	(GR	d 41	d 50	0	als	SZ.	des		No	لد			\ \
Date	Time	Matrix	Sample Request ID	Arcsion Container Type and # Menthat	Preservative Type		BTEX + 14TBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,Ci,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
19/2017	1148	SOIL	TSP-14	402-1	COUL	Tal	X		X									X			
1	1154	1	TSP - 15		1	202	X		X									X			
-1	1159	1	T3P - 16		11	703	×		×						1			×			\perp
												1			1	1					\pm
											+	-	+	+	+	+	\dashv	+	+	+	+
													1	1				\dashv			#
Date: /2017	Time:	Relinquish	1 Blegg	Received by:	Wast	Date Time 5/8/2017 / 4/1/	1.000	nark	1	314 112 :	Vi				1				ve 1	onosi	Kal
19/17	1940	Must	ullales	Un	me	0730															
/ 11	necessar	samples sub	mitted to Hall Environmental may be subt	contracted to other a	ocredited laborators	es. This serves as notice of this	possi	bility.	Ary su	ib-conti	acted	data w	vill be c	learty	notati	ed on t	the an	natytica	i repor	1.	



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 15, 2017

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

RE: Florance GC D 4A OrderNo.: 1705653

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/12/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1705653

Date Reported: 5/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705653-001

Client Sample ID: TSP-17

Collection Date: 5/11/2017 11:53:00 AM

Matrix: MEOH (SOIL) Received Date: 5/12/2017 7:45:00 AM

Analyses	Result	PQL (Qual 1	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	5/12/2017 10:14:28 AM	31710
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	3				Analyst	TOM
Diesel Range Organics (DRO)	43	10		mg/Kg	1	5/12/2017 10:02:47 AM	31701
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	5/12/2017 10:02:47 AM	31701
Surr: DNOP	103	70-130		%Rec	1	5/12/2017 10:02:47 AM	31701
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	9.3	3.7		mg/Kg	1	5/12/2017 10:14:15 AM	31697
Surr: BFB	286	54-150	S	%Rec	1	5/12/2017 10:14:15 AM	31697
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.018		mg/Kg	1	5/12/2017 10:14:15 AM	31697
Toluene	ND	0.037		mg/Kg	1	5/12/2017 10:14:15 AM	31697
Ethylbenzene	ND	0.037		mg/Kg	1	5/12/2017 10:14:15 AM	31697
Xylenes, Total	ND	0.073		mg/Kg	1	5/12/2017 10:14:15 AM	31697
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	5/12/2017 10:14:15 AM	31697

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

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

Lab Order 1705653

Date Reported: 5/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Florance GC D 4A

Lab ID: 1705653-002

Client Sample ID: TSP-18

Collection Date: 5/11/2017 11:59:00 AM

Matrix: MEOH (SOIL) Received Date: 5/12/2017 7:45:00 AM

Analyses	Result	PQL (Qual 1	Units	DH	7 Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	ND	30		mg/Kg	20	5/12/2017 10:26:53 A	M 31710
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3				Analys	st: TOM
Diesel Range Organics (DRO)	85	9.5		mg/Kg	1	5/12/2017 10:24:55 A	M 31701
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	5/12/2017 10:24:55 A	M 31701
Surr: DNOP	105	70-130		%Rec	1	5/12/2017 10:24:55 Al	M 31701
EPA METHOD 8015D: GASOLINE RANG	E					Analys	t: NSB
Gasoline Range Organics (GRO)	11	3.4		mg/Kg	1	5/12/2017 10:38:14 Al	M 31697
Surr: BFB	329	54-150	S	%Rec	1	5/12/2017 10:38:14 Al	M 31697
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.017		mg/Kg	1	5/12/2017 10:38:14 AI	M 31697
Toluene	ND	0.034		mg/Kg	1	5/12/2017 10:38:14 AI	A 31697
Ethylbenzene	ND	0.034		mg/Kg	1	5/12/2017 10:38:14 AI	A 31697
Xylenes, Total	ND	0.068		mg/Kg	1	5/12/2017 10:38:14 Al	A 31697
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	5/12/2017 10:38:14 AI	A 31697

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705653

15-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31710

SampType: MBLK

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 31710

RunNo: 42747

Prep Date: 5/12/2017

Analysis Date: 5/12/2017

SeqNo: 1345405

Units: mg/Kg

RPDLimit

Qual

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Chloride

PQL ND 1.5

Sample ID LCS-31710

LCSS

SampType: LCS Batch ID: 31710

RunNo: 42747

Client ID: Prep Date: 5/12/2017

Analysis Date: 5/12/2017

SeqNo: 1345406

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC

93.3

HighLimit

%RPD

Result

15.00

0

RPDLimit

Qual

Chloride

1.5

14

110

Page 3 of 6

PQL

90

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND R

RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix В

RL

Analyte detected in the associated Method Blank Value above quantitation range

J Analyte detected below quantitation limits Reporting Detection Limit

P Sample pH Not In Range

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705653

15-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID LCS-31701	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 31	701	F	RunNo: 4	2745				
Prep Date: 5/12/2017	Analysis D	ate: 5/	12/2017	8	SeqNo: 1	344751	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	63.8	116			
Surr: DNOP	4.5		5.000		91.0	70	130			
Sample ID MB-31701	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	701	F	RunNo: 4:	2745				
Prep Date: 5/12/2017	Analysis D	ate: 5/	12/2017	8	SeqNo: 1	344752	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.5	70	130			

Sample ID	1705653-001AMS	SampTy	/ре: М	3	Test	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	TSP-17	Batch	ID: 31	701	R	tunNo: 4	2745				
Prep Date:	5/12/2017	Analysis Da	ate: 5/	12/2017	S	eqNo: 1	345191	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	organics (DRO)	110	9.8	49.16	42.72	134	51.6	130			S
Surr: DNOP		5.1		4.916		103	70	130			

Sample ID	1705653-001AMSD	SampTyp	e: MS	SD	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	TSP-17	Batch II	D: 31	701	R	RunNo: 4	2745				
Prep Date:	5/12/2017	Analysis Dat	e: 5 /	12/2017	S	SeqNo: 1	345192	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	100	9.5	47.57	42.72	130	51.6	130	3.77	20	
Surr: DNOP		4.9		4.757		102	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1705653

15-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample	טו	WB-31697

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 31697

RunNo: 42754

Prep Date:

5/11/2017

Analysis Date: 5/12/2017

SeqNo: 1345149

Units: mg/Kg

Analyte

Gasoline Range Organics (GRO)

PQL Result ND 5.0

910

Result

24

SPK value SPK Ref Val %REC LowLimit

90.5

HighLimit

RPDLimit

Qual

Surr: BFB

Sample ID LCS-31697

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

150

%RPD

Client ID: LCSS

Batch ID: 31697

RunNo: 42754

Prep Date:

5/11/2017

PQL

5.0

3.7

SegNo: 1345150

%REC

96.2

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO)

Analysis Date: 5/12/2017

0

LowLimit

54

Qual

S

Qual

Surr: BFB

1000

102

76.4 125 54 150 %RPD **RPDLimit**

Sample ID 1705653-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Prep Date:

Client ID: TSP-17

TSP-17

Batch ID: 31697

Analysis Date: 5/12/2017

1000

25.00

1000

18.36

734.2

SPK value SPK Ref Val

RunNo: 42754 SeqNo: 1345151

110

271

Units: mg/Kg

%RPD

Analyte Gasoline Range Organics (GRO) Surr: BFB

Client ID:

Prep Date:

Surr: BFB

30 2000

Result

Result

30

2200

PQL

SPK value SPK Ref Val %REC 9.346

9.346

LowLimit 61.3

54

61.3

54

HighLimit

150

150

RPDLimit

Qual

Sample ID 1705653-001AMSD

SampType: MSD

Batch ID: 31697

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 42754

113

301

SeqNo: 1345152

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Analysis Date: 5/12/2017 PQL 3.7

SPK value SPK Ref Val 18.36 734.2

%REC

LowLimit

HighLimit 150

150

%RPD 1.80

0

RPDLimit 20

0 S

Qualifiers:

H

ND

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Not Detected at the Reporting Limit R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- B Analyte detected in the associated Method Blank
- J Analyte detected below quantitation limits
- Sample pH Not In Range RL Reporting Detection Limit

P

Sample container temperature is out of limit as specified

E Value above quantitation range

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1705653

15-May-17

Client:

Blagg Engineering

Project:

Florance GC D 4A

Sample ID MB-31697	SampT	уре: МЕ	BLK	Test						
Client ID: PBS	Batch	n ID: 31	697	R	RunNo: 4					
Prep Date: 5/11/2017	Analysis D	ate: 5/	12/2017	S	SeqNo: 1	345155	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID LCS-31697	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	n ID: 31	697	RunNo: 42754							
Prep Date: 5/11/2017	Analysis D	ate: 5/	12/2017	8	SeqNo: 1	345156	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	92.5	80	120				
Toluene	0.94	0.050	1.000	0	93.6	80	120				
Ethylbenzene	0.95	0.050	1.000	0	94.5	80	120				
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132				

Qualifiers:

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

P

W Sample container temperature is out of limit as specified

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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:	lame: BLAGG Work Order Number		1705653		RcptNo:	lo: 1					
Received By:	John Caldwell	5/12/2017 7:45:00 AM		Gehn C. Char	W						
Completed By:	Andy Jansson	5/12/2017 8:05:00 AM		John Clare							
Reviewed By:	ENM	05/12/17		myrow							
Reviewed By:	COM	041417									
Chain of Cus	stody										
1. Custody se	als intact on sample bottles	?	Yes 🗌	No 🗆	Not Present						
2. Is Chain of Custody complete?				No 🗌	Not Present						
3. How was the sample delivered?											
Log In											
4. Was an att	empt made to cool the sam	ples?	Yes 🗹	No 🗆	NA 🗆						
5. Were all sa	mples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆						
6. Sample(s)	in proper container(s)?		Yes 🗸	No 🗆							
7. Sufficient sa	ample volume for indicated	test(s)?	Yes 🗹	No 🗆							
8. Are samples (except VOA and ONG) properly preserved?				No 🗆							
9. Was preservative added to bottles?				No 🗹	NA 🗆						
10.VOA vials h	ave zero headspace?		Yes 🗌	No 🗆	No VOA Vials ✓						
11. Were any s	ample containers received	broken?	Yes 🗌	No 🗹							
				_	# of preserved bottles checked						
12. Does paperwork match bottle labels?			Yes 🗹	No 🗆	for pH:	or >12 unless noted)					
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?				No 🗆	Adjusted?	ii > 12 unless noteu)					
14. Is it clear what analyses were requested?				No 🗆	-						
15. Were all holding times able to be met?			Yes 🗹	No 🗆	Checked by:						
	customer for authorization.)			-						
0 1111											
	iling (if applicable)										
16. Was client i	notified of all discrepancies	with this order?	Yes 🗆	No 🗆	NA 🗹	٦					
Perso	n Notified:	Date									
By W		Via:	eMail	Phone Fax	☐ In Person						
Regar	photos de la constante de la c	ministratikin dan manistrisis — b. Lista A. C.	5714-574-684-684-1F14-94-	n der fan de Sterkensenskerske a heldt av stikele en sterkensse samme i en	months of the Cold State Commission of the Co						
Client	Instructions:										
17. Additional r	emarks:										
18. Cooler Info		1 1 1 -									
Cooler N	5.8 Good	Seal Intact Seal No S	Seal Date	Signed By							
l,	J.0 G000	100									

Chain-of-Custody Record Client: BP America Blaga Engineering Mailing Address: Phone #: (505) 320 - (183) email or Fax#: QA/QC Package: Standard Level 4 (Full Validation)			Standard Rush Project Name: SAME DAY ANALYSIS LABORAT																		
			Project Name: Flor Aucé GC D 4A Project #: Project Manager: J - Blagg			www.hallenvironmental.com															
						4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107															
							10	el. 00	/5-54	3-3	-	-	The Park Street	-	uest	_			331		
							3	TPH 8015B (GRO / DRO / MRO)			SIMS)										
						ETMB's (8021)	(Gas or						PO4.SC	PCB's							
Accreditation NELAP Other			Sampler: J. Blagg On Ice: No □ No		ETMB	+ TPH	18.1)		04.1)	8270	3,NO2		/ 8082		(A				(N)		
□ EDD (Type)		Sample Temperature: \$.8			BE	(GF	4 bo	od 5	00	stals	N'I	ides	F	-40	10			3			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX & WITE	BTEX + MTBE + TPH (Gas only)	TPH 8015E	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHROCIDE			Air Bubbles (Y or N)
5/1/1	1153	SOIL	TSP-17	40321	COL	-001	X		X									X			
It	1159	M	TSP - 18	11	it	_002	X		X									X	-	+	\blacksquare
																					+
																			-	+	-
	-																				
																			1	\mp	H
																			\neg	\top	\top
Date: 5/1/2017 Date: 5/11/1	1851	Relinquish	1 Blogg	The Cla	well !	5 Date Time 5/1/2017 1647 Date Time 5/12-17 0745	- 0	UBS	E	D: ene	vient	HIXU : L	1-	00	4 18	м-	Εŝ	Z	214"		