

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

SEP 03 2015 Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Florance J 48A	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 300452146
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LOCATION OF RELEASE

Unit Letter O	Section 23	Township 30N	Range 8W	Feet from the 960	North/South Line North	Feet from the 1,105	East/West Line East	County: San Juan
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Latitude 36.79293 Longitude 107.64238

NATURE OF RELEASE

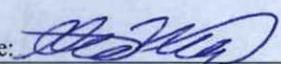
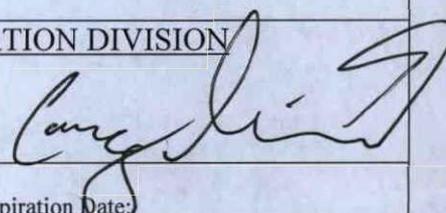
Type of Release: condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: Below Grade Tank (BGT) - 18 bbl, Tank B	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: May 7, 2014; 1:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Buddy Shaw	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was performed during removal to determine the existence of impacts. Soil analysis determine chloride levels below remediation standards, but TPH results of 54,000 ppm by 418.1 and 10,400 ppm by 8015D were above remediation standards. Combined BTEX was above standards with 156.7 ppm with benzene below standard at 0.50 ppm (via 8021B). A shallow excavation was advanced through sandstone bedrock. Hydrogen peroxide was applied to the broken up material.

Describe Area Affected and Cleanup Action Taken.* Sampling of the material below the BGT approximately 5 months after the application of hydrogen peroxide determine TPH levels to be below the site specific 5,000 ppm remediation standard with 1,200 ppm via 8015B (8,900 ppm via 418.1). Chloride, BTEX and benzene were below the site specific remediation standard as well.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <u>9/28/15</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 17, 2015	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

#NCS 1527156822

BP AMERICA PRODUCTION COMPANY

FLORANCE J 048A – 18 BBL BGT (TANK ID: B) SOIL REMEDIATION

API #: 30-045-22146

Legal Description: (Unit Letter O, Sec. 23 -T30N -R8W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

- May 7, 2014:** BP begins closure of 18 barrel below-grade tank (BGT) at the site. The BGT was initially installed by carving into bedrock sandstone which was observed at the ground surface in the immediate vicinity of the BGT location. Apparent hydrocarbon impacts to the soil and bedrock surface (sandstone) directly beneath the BGT was evident based on physical discoloration and strong odor. Blagg Engineering, Inc. (BEI) collected a five (5) point composite sample (PCS) beneath the BGT after its removal from the subsurface [5PC-TB @ 2' (18)]. Thereafter, BEI recommended to mix the impacted soil and sandstone surface with clean fill material and leave in place. The impacted soils was estimated at less than 1 cubic yard.
- May 8, 2014:** Preliminary lab results indicated the following results for 5PC-TB @ 2' (18);
Total Petroleum Hydrocarbons (TPH) using US EPA Method 418.1 = 54,000 mg/Kg
TPH using US EPA Method 8015B = 10,400 mg/Kg
Benzene using US EPA Method 8021B = 0.50 mg/Kg
Total benzene, toluene, ethylbenzene, total xylenes (BTEX) using US EPA Method 8021B = 156.7 mg/Kg
Chloride using US EPA Method 300.0 = not detected (ND) at reporting limits of 30 mg/Kg
- February 4, 2015:** BP instructed BEI to apply concentrated hydrogen peroxide to the already blended soils and bedrock fragments at the BGT location.
- July 30, 2015:** BP instructed BEI to perform a subsequent sample event of the remediated material. A five (5) PCS was collected [5PC-TB @ 2'-3' (18)].
- August 10, 2015:** The final lab report was received and shows the following results;
TPH using US EPA Method 418.1 = 8,900 mg/Kg
TPH using US EPA Method 8015B = 1,200 mg/Kg
Benzene using US EPA Method 8021B = ND at reporting limits of less than 0.050 mg/Kg
BTEX using US EPA Method 8021B = ND at reporting limits of less than 0.10 mg/Kg
Chloride using US EPA Method 300.0 = 110 mg/Kg

The New Mexico Oil Conservation Division's Spill and Release Guidelines, dated August 1993, gives the site a TPH closure standard of 5,000 mg/Kg based on (see supporting topographic map on following page):

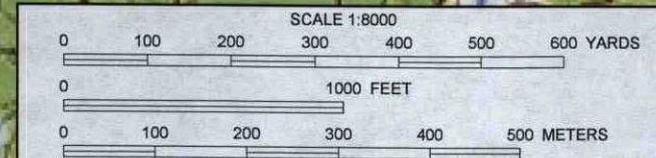
- Horizontal Distance to a down gradient Surface Water Body (e.g. watercourse > 1,000 feet (0 points)
- Well Head Protection Area (e.g. nearest water well or natural spring) > 1,000 feet (0 points)
- Depth to Groundwater > 100 feet (0 points)

Distance to nearest Down Gradient Surface Water Body

1,000 feet radius from
18 bbl BGT GPS Coordinates

18 bbl BGT Location

Surface Gradient Direction



BP - Florance J 048A
Unit Ltr O, Sec. 23, T30N, R8W
API #: 30-045-22146

18 bbl BGT (Tank ID: B)
36.79293°N, 107.64238°W

CLIENT: **BP** **BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199 API #: **3004522146**
 TANK ID (if applicable): **B&C**

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: **1** of **1**

SITE INFORMATION: SITE NAME: **FLORANCE J #48A**
 QUAD/UNIT: **O** SEC: **23** TWP: **30N** RNG: **8W** PM: **NM** CNTY: **SJ** ST: **NM**
 1/4 -1/4/FOOTAGE: **1,060'S / 1,680'E** **SW/SE** LEASE TYPE: FEDERAL / STATE / FEE / INDIAN
 LEASE #: **SF078385** PROD. FORMATION: **MV** CONTRACTOR: **ELKHORN MBF - B. SCHURMAN**

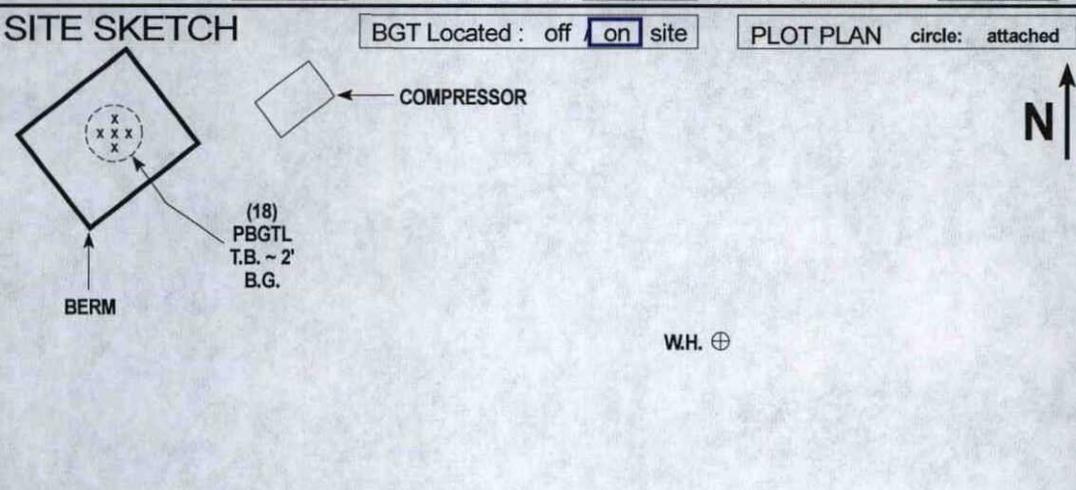
DATE STARTED: **05/07/14**
 DATE FINISHED: _____
 ENVIRONMENTAL SPECIALIST(S): **NJV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.79280 X 107.64201** GL ELEV.: **6,172'**
 1) **18 BGT (SW/SB) - B** GPS COORD.: **36.79293 X 107.64238** DISTANCE/BEARING FROM W.H.: **125', N72W**
 2) ~~**95 BGT (SW/DB) - C**~~ GPS COORD.: ~~**36.79281 X 107.64183**~~ DISTANCE/BEARING FROM W.H.: ~~**55', S68E**~~
 3) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____
 4) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____

SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL** OVM READING (ppm)
 1) SAMPLE ID: **5 PC-TB @ 2' (18) - B** SAMPLE DATE: **05/07/14** SAMPLE TIME: **1250** LAB ANALYSIS: **418.1/8015B/8021B/300.0 (CI)** **NA**
 2) SAMPLE ID: ~~**5 PC-TB @ 8' (95) - C**~~ SAMPLE DATE: ~~**05/07/14**~~ SAMPLE TIME: ~~**1300**~~ LAB ANALYSIS: ~~**418.1/8015B/8021B/300.0 (CI)**~~ ~~**NA**~~
 3) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____
 4) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____

SOIL DESCRIPTION: SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER **BEDROCK (SANDSTONE)**
 SOIL COLOR: **MOSTLY GRAYISH ORANGE** PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
 COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
 CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE HC ODOR DETECTED: YES / NO EXPLANATION - **DISCOLORED SOIL @ 18 BGT ONLY.**
 MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
 SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. **5** ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - _____
 DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - **BENEATH 18 BGT (MEDIUM GRAY)**

SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION - **18 BGT ONLY**
 APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: **18 BGT ONLY**
 EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - _____
 OTHER: **BEDROCK SANDSTONE OUTCROP @ GROUND SURFACE THROUGHOUT NORTHERN HALF OF WELL PAD. 18 BGT INSTALLED BY CARVING INTO BEDROCK. IMPACTED SOIL VERY MINIMAL. WILL LEAVE IN PLACE.**
 SOIL IMPACT DIMENSION ESTIMATION: **5** ft. X **5** ft. X **0.5** ft. EXCAVATION ESTIMATION (Cubic Yards): **<1**
 DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **>1,000** NMOC DTPH CLOSURE STD: **5,000** ppm



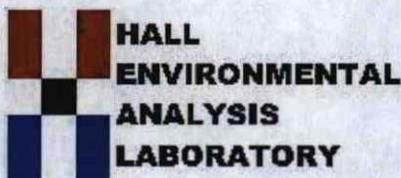
OVM CALIB. READ. = **NA** ppm RF=1.00
 OVM CALIB. GAS = **NA** ppm
 TIME: **NA** am/pm DATE: **NA**

MISCELL. NOTES

WO: **N15182573**
 PO #: **4300261710**
 PK:
 PJ #:
 Permit date(s): **06/14/10**
 OCD Appr. date(s): **05/14/14**
 Tank ID OVM = Organic Vapor Meter ppm = parts per million
B BGT Sidewalls Visible: Y / N
~~**C** BGT Sidewalls Visible: Y / N~~
 BGT Sidewalls Visible: Y / N
 Magnetic declination: **10° E**

X - S.P.D.
 NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: **GOOGLE EARTH IMAGERY DATE: 05/02/2013.** ONSITE: **05/07/14**



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

May 15, 2014

Nelson Velez
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX (505) 632-3903

RE: Florance J #48A

OrderNo.: 1405369

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/8/2014 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405369

Date Reported: 5/15/2014

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 2' (18)-B

Project: Florance J #48A

Collection Date: 5/7/2014 12:50:00 PM

Lab ID: 1405369-001

Matrix: SOIL

Received Date: 5/8/2014 3:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	9300	1000		mg/Kg	100	5/13/2014 10:55:37 AM	13082
Surr: DNOP	0	57.9-140	S	%REC	100	5/13/2014 10:55:37 AM	13082
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1100	97		mg/Kg	20	5/12/2014 5:29:54 PM	13090
Surr: BFB	205	74.5-129	S	%REC	20	5/12/2014 5:29:54 PM	13090
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.50	0.48		mg/Kg	20	5/12/2014 5:29:54 PM	13090
Toluene	6.2	0.97		mg/Kg	20	5/12/2014 5:29:54 PM	13090
Ethylbenzene	ND	0.97		mg/Kg	20	5/12/2014 5:29:54 PM	13090
Xylenes, Total	150	1.9		mg/Kg	20	5/12/2014 5:29:54 PM	13090
Surr: 4-Bromofluorobenzene	116	80-120		%REC	20	5/12/2014 5:29:54 PM	13090
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	30		mg/Kg	20	5/13/2014 1:25:13 PM	13142
EPA METHOD 418.1: TPH							Analyst: JME
Petroleum Hydrocarbons, TR	54000	2000		mg/Kg	100	5/13/2014 12:00:00 PM	13084

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369
 15-May-14

Client: Blagg Engineering
Project: Florance J #48A

Sample ID	MB-13142	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	13142	RunNo:	18590					
Prep Date:	5/13/2014	Analysis Date:	5/13/2014	SeqNo:	536900	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-13142	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	13142	RunNo:	18590					
Prep Date:	5/13/2014	Analysis Date:	5/13/2014	SeqNo:	536901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369

15-May-14

Client: Blagg Engineering

Project: Florance J #48A

Sample ID	MB-13084	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	13084	RunNo:	18548					
Prep Date:	5/9/2014	Analysis Date:	5/13/2014	SeqNo:	535923	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-13084	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	13084	RunNo:	18548					
Prep Date:	5/9/2014	Analysis Date:	5/13/2014	SeqNo:	535924	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	91	20	100.0	0	91.2	80	120			

Sample ID	LCSD-13084	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	13084	RunNo:	18548					
Prep Date:	5/9/2014	Analysis Date:	5/13/2014	SeqNo:	535925	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	96	20	100.0	0	95.5	80	120	4.58	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369

15-May-14

Client: Blagg Engineering

Project: Florance J #48A

Sample ID	MB-13082	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13082	RunNo:	18502					
Prep Date:	5/9/2014	Analysis Date:	5/9/2014	SeqNo:	534127	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		81.9	57.9	140			

Sample ID	LCS-13082	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13082	RunNo:	18502					
Prep Date:	5/9/2014	Analysis Date:	5/9/2014	SeqNo:	534128	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	60.8	145			
Surr: DNOP	4.3		5.000		85.5	57.9	140			

Sample ID	MB-13132	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13132	RunNo:	18557					
Prep Date:	5/13/2014	Analysis Date:	5/13/2014	SeqNo:	536327	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.4	57.9	140			

Sample ID	LCS-13132	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13132	RunNo:	18557					
Prep Date:	5/13/2014	Analysis Date:	5/13/2014	SeqNo:	536328	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.7	57.9	140			

Sample ID	MB-13112	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13112	RunNo:	18557					
Prep Date:	5/12/2014	Analysis Date:	5/13/2014	SeqNo:	536644	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.8	57.9	140			

Sample ID	LCS-13112	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13112	RunNo:	18557					
Prep Date:	5/12/2014	Analysis Date:	5/13/2014	SeqNo:	536647	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.5	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369
 15-May-14

Client: Blagg Engineering
Project: Florance J #48A

Sample ID MB-13119	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 13119		RunNo: 18557							
Prep Date: 5/12/2014	Analysis Date: 5/13/2014		SeqNo: 536743				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.0	57.9	140			

Sample ID LCS-13119	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 13119		RunNo: 18557							
Prep Date: 5/12/2014	Analysis Date: 5/13/2014		SeqNo: 536744				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.4	57.9	140			

Sample ID MB-13097	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 13097		RunNo: 18557							
Prep Date: 5/9/2014	Analysis Date: 5/14/2014		SeqNo: 536755				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.3	57.9	140			

Sample ID LCS-13097	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 13097		RunNo: 18557							
Prep Date: 5/9/2014	Analysis Date: 5/14/2014		SeqNo: 536756				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.4	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369
 15-May-14

Client: Blagg Engineering
Project: Florance J #48A

Sample ID MB-13090	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 13090		RunNo: 18552							
Prep Date: 5/9/2014	Analysis Date: 5/12/2014		SeqNo: 535973		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.0	74.5	129			

Sample ID LCS-13090	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 13090		RunNo: 18552							
Prep Date: 5/9/2014	Analysis Date: 5/12/2014		SeqNo: 535974		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.1	71.7	134			
Surr: BFB	930		1000		93.4	74.5	129			

Sample ID MB-13090 MK	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R18552		RunNo: 18552							
Prep Date:	Analysis Date: 5/12/2014		SeqNo: 535984		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	850		1000		85.0	74.5	129			

Sample ID LCS-13090 MK	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R18552		RunNo: 18552							
Prep Date:	Analysis Date: 5/12/2014		SeqNo: 535985		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.4	74.5	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405369

15-May-14

Client: Blagg Engineering

Project: Florance J #48A

Sample ID	MB-13090	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	13090	RunNo:	18552					
Prep Date:	5/9/2014	Analysis Date:	5/12/2014	SeqNo:	536001	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

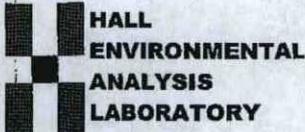
Sample ID	LCS-13090	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	13090	RunNo:	18552					
Prep Date:	5/9/2014	Analysis Date:	5/12/2014	SeqNo:	536002	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	1405369-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	5PC-TB @ 2' (95)-C	Batch ID:	13090	RunNo:	18552					
Prep Date:	5/9/2014	Analysis Date:	5/12/2014	SeqNo:	536007	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.048	0.9625	0	94.4	67.4	135			
Toluene	0.86	0.048	0.9625	0.009048	88.6	72.6	135			
Ethylbenzene	0.87	0.048	0.9625	0	90.5	69.4	143			
Xylenes, Total	2.5	0.096	2.887	0.01380	86.1	70.8	144			
Surr: 4-Bromofluorobenzene	1.0		0.9625		104	80	120			

Sample ID	1405369-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	5PC-TB @ 2' (95)-C	Batch ID:	13090	RunNo:	18552					
Prep Date:	5/9/2014	Analysis Date:	5/12/2014	SeqNo:	536008	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.048	0.9606	0	98.3	67.4	135	3.90	20	
Toluene	0.88	0.048	0.9606	0.009048	90.7	72.6	135	2.14	20	
Ethylbenzene	0.89	0.048	0.9606	0	92.2	69.4	143	1.62	20	
Xylenes, Total	2.6	0.096	2.882	0.01380	88.9	70.8	144	2.95	20	
Surr: 4-Bromofluorobenzene	0.98		0.9606		102	80	120	0	0	

Qualifiers:

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



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: **1405369**

RcptNo: **1**

Received by/date: *[Signature]* 05/08/14

Logged By: **Lindsay Mangin** 5/8/2014 3:00:00 PM *[Signature]*

Completed By: **Lindsay Mangin** 5/9/2014 6:36:19 AM *[Signature]*

Reviewed By: A 05/09/14

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

Chain of Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87
BLOOMFIELD, NM 87413**

Phone #: **(505) 632-1199**

email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Standard Rush

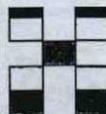
Project Name: **FLORANCE J # 48A**

Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**
 On Ice: Yes No

Sample Temperature: **10**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / HARG)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)	Grab sample	5 pt. composite sample
5/7/14	1250	SOIL	5PC - TB @ 2' (18) - B	4 oz. - 1	Cool	1405369 -001	✓	✓	✓									✓		✓
5/7/14	1300	SOIL	5PC - TB @ 2' (95) - C	4 oz. - 1	Cool	-002	✓	✓	✓									✓		✓

Date: **5/8/14** Time: **807** Relinquished by: *[Signature]*

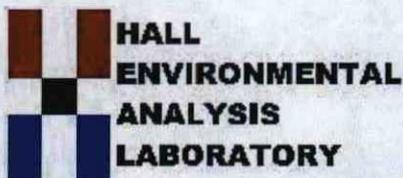
Date: **5/8/14** Time: **1335** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **5/8/14** Time: **807**

Received by: *[Signature]* Date: **05/08/14** Time: **1500**

Remarks:
 Send invoice to:
**Blagg Engineering, Inc.
 P.O. Box 87
 Bloomfield, NM 87413**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

August 10, 2015

Nelson Velez
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX (505) 632-3903

RE: Florance J #48A

OrderNo.: 1508024

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/1/2015 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1508024

Date Reported: 8/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 2'-3' (18)-B

Project: Florance J #48A

Collection Date: 7/30/2015 12:40:00 PM

Lab ID: 1508024-001

Matrix: SOIL

Received Date: 8/1/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH Analyst: TOM							
Petroleum Hydrocarbons, TR	8900	2000		mg/Kg	100	8/7/2015	20635
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	110	30		mg/Kg	20	8/6/2015 11:52:27 AM	20649
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: KJH							
Diesel Range Organics (DRO)	1200	990		mg/Kg	100	8/7/2015 1:34:15 PM	20585
Surr: DNOP	0	57.9-140	S	%REC	100	8/7/2015 1:34:15 PM	20585
EPA METHOD 8015D: GASOLINE RANGE Analyst: RAA							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/5/2015 10:25:10 AM	20592
Surr: BFB	93.2	75.4-113		%REC	1	8/5/2015 10:25:10 AM	20592
EPA METHOD 8021B: VOLATILES Analyst: RAA							
Benzene	ND	0.050		mg/Kg	1	8/5/2015 10:25:10 AM	20592
Toluene	ND	0.050		mg/Kg	1	8/5/2015 10:25:10 AM	20592
Ethylbenzene	ND	0.050		mg/Kg	1	8/5/2015 10:25:10 AM	20592
Xylenes, Total	ND	0.10		mg/Kg	1	8/5/2015 10:25:10 AM	20592
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	8/5/2015 10:25:10 AM	20592

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1508024
 10-Aug-15

Client: Blagg Engineering
Project: Florance J #48A

Sample ID	MB-20649	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	20649	RunNo:	28030					
Prep Date:	8/6/2015	Analysis Date:	8/6/2015	SeqNo:	843926	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20649	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	20649	RunNo:	28030					
Prep Date:	8/6/2015	Analysis Date:	8/6/2015	SeqNo:	843927	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.9	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1508024

10-Aug-15

Client: Blagg Engineering
Project: Florance J #48A

Sample ID MB-20635	SampType: MBLK		TestCode: EPA Method 418.1: TPH							
Client ID: PBS	Batch ID: 20635		RunNo: 28040							
Prep Date: 8/6/2015	Analysis Date: 8/7/2015		SeqNo: 844238		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID LCS-20635	SampType: LCS		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS	Batch ID: 20635		RunNo: 28040							
Prep Date: 8/6/2015	Analysis Date: 8/7/2015		SeqNo: 844239		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	93	20	100.0	0	93.4	83.6	116			

Sample ID LCSD-20635	SampType: LCSD		TestCode: EPA Method 418.1: TPH							
Client ID: LCSS02	Batch ID: 20635		RunNo: 28040							
Prep Date: 8/6/2015	Analysis Date: 8/7/2015		SeqNo: 844240		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	97	20	100.0	0	97.3	83.6	116	4.16	20	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508024

10-Aug-15

Client: Blagg Engineering

Project: Florance J #48A

Sample ID MB-20585	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 20585		RunNo: 27958							
Prep Date: 8/4/2015	Analysis Date: 8/5/2015		SeqNo: 841771		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.8	57.9	140			

Sample ID LCS-20585	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 20585		RunNo: 27958							
Prep Date: 8/4/2015	Analysis Date: 8/5/2015		SeqNo: 841772		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	57.4	139			
Surr: DNOP	4.7		5.000		93.3	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1508024

10-Aug-15

Client: Blagg Engineering

Project: Florance J #48A

Sample ID	LCS-20592		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	20592		RunNo:	27987				
Prep Date:	8/4/2015		Analysis Date:	8/5/2015		SeqNo:	842530		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	79.6	122				
Surr: BFB	1000		1000		99.7	75.4	113				

Sample ID	MB-20592		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	20592		RunNo:	27987				
Prep Date:	8/4/2015		Analysis Date:	8/5/2015		SeqNo:	842531		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		90.9	75.4	113				

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1508024
 10-Aug-15

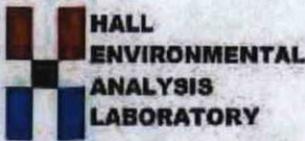
Client: Blagg Engineering
Project: Florance J #48A

Sample ID	LCS-20592		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	20592		RunNo:	27987				
Prep Date:	8/4/2015		Analysis Date:	8/5/2015		SeqNo:	842733		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.050	1.000	0	111	76.6	128				
Toluene	1.1	0.050	1.000	0	109	75	124				
Ethylbenzene	1.1	0.050	1.000	0	108	79.5	126				
Xylenes, Total	3.4	0.10	3.000	0	115	78.8	124				
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120				

Sample ID	MB-20592		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	20592		RunNo:	27987				
Prep Date:	8/4/2015		Analysis Date:	8/5/2015		SeqNo:	842734		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

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



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: **1508024**

RcptNo: **1**

Received by/date *[Signature]* **08/01/15**

Logged By: **Ashley Gallegos**

8/1/2015 8:00:00 AM

[Signature]

Completed By: **Ashley Gallegos**

8/3/2015 12:04:36 PM

[Signature]

Reviewed By: *[Signature]*

08/03/15

Chain of Custody

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

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6 0° C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: _____
(Note discrepancies on chain of custody) (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? _____
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: _____
(If no, notify customer for authorization.)

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes			

