

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 CONS. DIV DIST. 3

MAY 14 2015

Form C-141
Revised August 8, 2011

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

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

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 100 | Facility Type: Natural gas well |

| | | |
|------------------------|------------------------|--------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 3004520064 |
|------------------------|------------------------|--------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|----------------------|------------------------|------------------|
| Unit Letter P | Section 30 | Township 30N | Range 8W | Feet from the 1,170 | North/South Line South | Feet from the 945 | East/West Line East | County: San Juan |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|----------------------|------------------------|------------------|

Latitude 36.77837 Longitude 107.71039

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: condensate/oil – historic release | Volume of Release: unknown | Volume Recovered: NA |
| Source of Release: unknown – likely earthen pit | Date and Hour of Occurrence: unknown | Date and Hour of Discovery: 9/26/2013; 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? | Date and Hour: | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

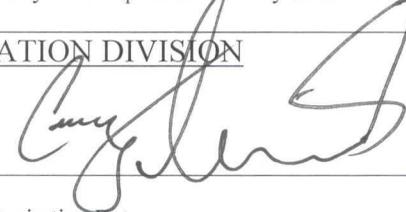
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken. **SUPPLEMENTAL INFORMATION**

* Groundwater samples were taken after excavation of impacted soils was completed. Water samples were non-detect for BTEX, but sulfate and TDS were above the limits. A sample of produced water from another nearby BP operated Pictured Cliffs well was taken to determine if produced water had impacted the water samples taken at the Florance 100. The produced water sample analysis showed non-detect for sulfate and TDS of 820 ppm, indicating produced water was not responsible for the high levels of sulfate and TDS in the groundwater at the Florance 100. Water analysis data are attached.

Describe Area Affected and Cleanup Action Taken.*

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:  | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: Jeff Peace | Approved by Environmental Specialist:  | |
| Title: Field Environmental Coordinator | Approval Date: <u>6/30/15</u> | Expiration Date: |
| E-mail Address: peace.jeffrey@bp.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: May 8, 2015 | Phone: 505-326-9479 | |

* Attach Additional Sheets If Necessary

#Nes 1518150466

BP AMERICA PRODUCTION COMPANY

FLORANCE # 100 (PC) - (Two unknown source release discoveries)

Unit Letter P, Section 30, T30N, R08W - API Number: 30-045-20064

Field & Laboratory Data from Groundwater Monitor Wells & Formation Produced Water

| FIELD PARAMETERS | | | | | | | | |
|---|-------------|-------------|--------------------------|---------------------------|------|----------------------------|---------------------------|----------------------------|
| SAMPLE ID | SAMPLE DATE | SAMPLE TIME | DEPTH TO WATER (feet) | TOTAL MW LENGTH (feet) | pH | Conductivity (µmhos/cm) | Temperature (°Celcius) | Volume Purged (gallons) |
| MW # 1 (background) 1 | 04/16/14 | 0920 | 21.48 | 35.34 | 6.50 | 1,100 | 13.3 | 6.75 |
| " 2 | 11/05/14 | 1300 | 21.60 | " | 6.92 | 1,000 | 17.1 | 6.75 |
| MW # 2 (source) 1 | 04/16/14 | 1025 | 23.78 | 36.26 | 6.51 | 1,800 | 14.2 | 6.25 |
| " 2 | 11/05/14 | 1400 | 24.42 | " | 7.32 | 1,300 | 14.7 | 5.75 |
| MW # 3 (source) 1 | 04/16/14 | 1130 | 28.69 | 34.09 | 6.52 | 1,500 | 14.4 | 2.75 |
| " 2 | 11/05/14 | 1500 | 29.69 | " | 7.15 | 1,100 | 14.8 | 2.25 |
| State GC BN 001 (PC) - 21 bbl BGT PRODUCED WATER | 02/20/15 | 1035 | NA | NA | NA | NA | NA | NA |

NMWQCC STANDARDS - 6 - 9

| LABORATORY PARAMETERS | | | | | | | | | |
|---|---|---|---|--|---|--|---|---|---|
| SAMPLE ID | Fluoride (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Nitrate-Nitrite as N (mg/L) | TDS (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl - benzene (µg/L) | Total Xylenes (µg/L) |
| MW # 1 (background) 1 | ND | 12 | 1,800 | ND | 3,100 | ND | ND | ND | ND |
| " 2 | NA | NA | 1,700 | NA | 3,100 | NA | NA | NA | NA |
| MW # 2 (source) 1 | 0.87 | 6.3 | 2,500 | ND | 4,000 | ND | ND | ND | ND |
| " 2 | NA | NA | 2,500 | NA | 3,770 | NA | NA | NA | NA |
| MW # 3 (source) 1 | 0.60 | 24 | 1,700 | ND | 2,960 | ND | ND | ND | ND |
| " 2 | NA | NA | 1,700 | NA | 2,930 | NA | NA | NA | NA |
| State GC BN 001 (PC) - 21 bbl BGT PRODUCED WATER | NA | NA | ND | ND | 820 | NA | NA | NA | NA |
| NMWQCC STANDARDS - | 1.6 | 250 | 600 | 10 | 1,000 | 10 | 750 | 750 | 620 |

Notes:

Depth to water measured from casing top of monitor well.

Groundwater standards are applied to values assigned in blue highlighted boxes or confirmed background levels, which ever is higher.

MW - Monitor well
 µmhos/cm - Micromhos per centimeter
 TDS - Total dissolved solids
 mg/L - Milligram per Liter

µg/L - Microgram per liter
 ND - Not detected at Reporting Limit
 NA - Not available or applicable
 NMWQCC - New Mexico Water Quality Control Commission

Analytical Report

Lab Order 1502A24

Date Reported: 3/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 21 BGT-Produced Water

Project: State GC BN #1

Collection Date: 2/20/2015 10:35:00 AM

Lab ID: 1502A24-001

Matrix: AQUEOUS

Received Date: 2/25/2015 7:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|------|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LGT |
| Sulfate | ND | 0.50 | | mg/L | 1 | 2/27/2015 5:19:28 AM | R24552 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 820 | 200 | * | mg/L | 1 | 2/27/2015 8:17:00 AM | 17895 |

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 Not In Range |
| | 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#: 1502A24

02-Mar-15

Client: Blagg Engineering
Project: State GC BN #1

| | | | | | | | | | | |
|-----------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID MB | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBW | Batch ID: R24552 | RunNo: 24552 | | | | | | | | |
| Prep Date: | Analysis Date: 2/26/2015 | SeqNo: 723037 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | ND | 0.50 | | | | | | | | |

| | | | | | | | | | | |
|------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID LCS | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSW | Batch ID: R24552 | RunNo: 24552 | | | | | | | | |
| Prep Date: | Analysis Date: 2/26/2015 | SeqNo: 723038 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | 10 | 0.50 | 10.00 | 0 | 99.7 | 90 | 110 | | | |

| | | | | | | | | | | |
|-----------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID MB | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBW | Batch ID: R24552 | RunNo: 24552 | | | | | | | | |
| Prep Date: | Analysis Date: 2/26/2015 | SeqNo: 723091 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | ND | 0.50 | | | | | | | | |

| | | | | | | | | | | |
|------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID LCS | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSW | Batch ID: R24552 | RunNo: 24552 | | | | | | | | |
| Prep Date: | Analysis Date: 2/26/2015 | SeqNo: 723092 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | 9.8 | 0.50 | 10.00 | 0 | 98.1 | 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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502A24
02-Mar-15

Client: Blagg Engineering
Project: State GC BN #1

| Sample ID MB-17895 | SampType: MBLK | TestCode: SM2540C MOD: Total Dissolved Solids | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: 17895 | RunNo: 24545 | | | | | | | | |
| Prep Date: 2/25/2015 | Analysis Date: 2/27/2015 | SeqNo: 722782 | Units: mg/L | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | ND | 20.0 | | | | | | | | |

| Sample ID LCS-17895 | SampType: LCS | TestCode: SM2540C MOD: Total Dissolved Solids | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSW | Batch ID: 17895 | RunNo: 24545 | | | | | | | | |
| Prep Date: 2/25/2015 | Analysis Date: 2/27/2015 | SeqNo: 722783 | Units: mg/L | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 1010 | 20.0 | 1000 | 0 | 101 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1502A24**

RcptNo: **1**

Received by/date:

fm *02/25/15*

Logged By: **Ashley Gallegos**

2/25/2015 7:30:00 AM

AG

Completed By: **Ashley Gallegos**

2/25/2015 9:48:12 AM

AG

Reviewed By:

OS *02/25/15*

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: _____
(<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 | 12 | Good | Yes | | | |

To: Brandon Powell, Cory Smith, NMOCD

From: Jeff Peace, BP

Date: August 29, 2014

Re: Florance 100 closure report

Brandon and Cory,

The attached map shows the locations of the three groundwater monitor wells BP installed at the Florance 100 after remediation of impacted soil was completed. All three monitor wells were non-detect for BTEX, but closure was not approved due to the high concentrations of sulfate in the monitor wells. This is the first time BP has had a remediation denied when BTEX concentrations were below the standards, and BP does not understand the denial due to sulfate since it is not the standard use to determine impacts to groundwater.

In spite of this, BP believes the data show the groundwater in the vicinity of the Florance 100 is normally high for sulfate and TDS. The upgradient well, MW No. 1 has sulfate of 1,800 mg/l and TDS of 3,100 mg/l. The two wells in the source area where excavation of impacted soil was done had sulfate of 2,500 mg/l and 1,700 mg/l, and TDS of 4,000 mg/l and 2,960 mg/l. This results in one of the monitor wells in the source area with sulfate and TDS concentrations less than those of the upgradient monitor well, and the other with concentrations of those constituents in the same range.

Based on this information, BP believes the sulfate and TDS concentrations in the monitor wells reflect natural or background conditions and are not the result of the impacted soil excavated at the Florance 100 site. Therefore BP believes the C-141 final report for the remediation should be approved by NMOCD.

If you have any questions or need additional information please let me know.

Sincerely yours,



Jeff Peace, PE

Area Environmental Advisor

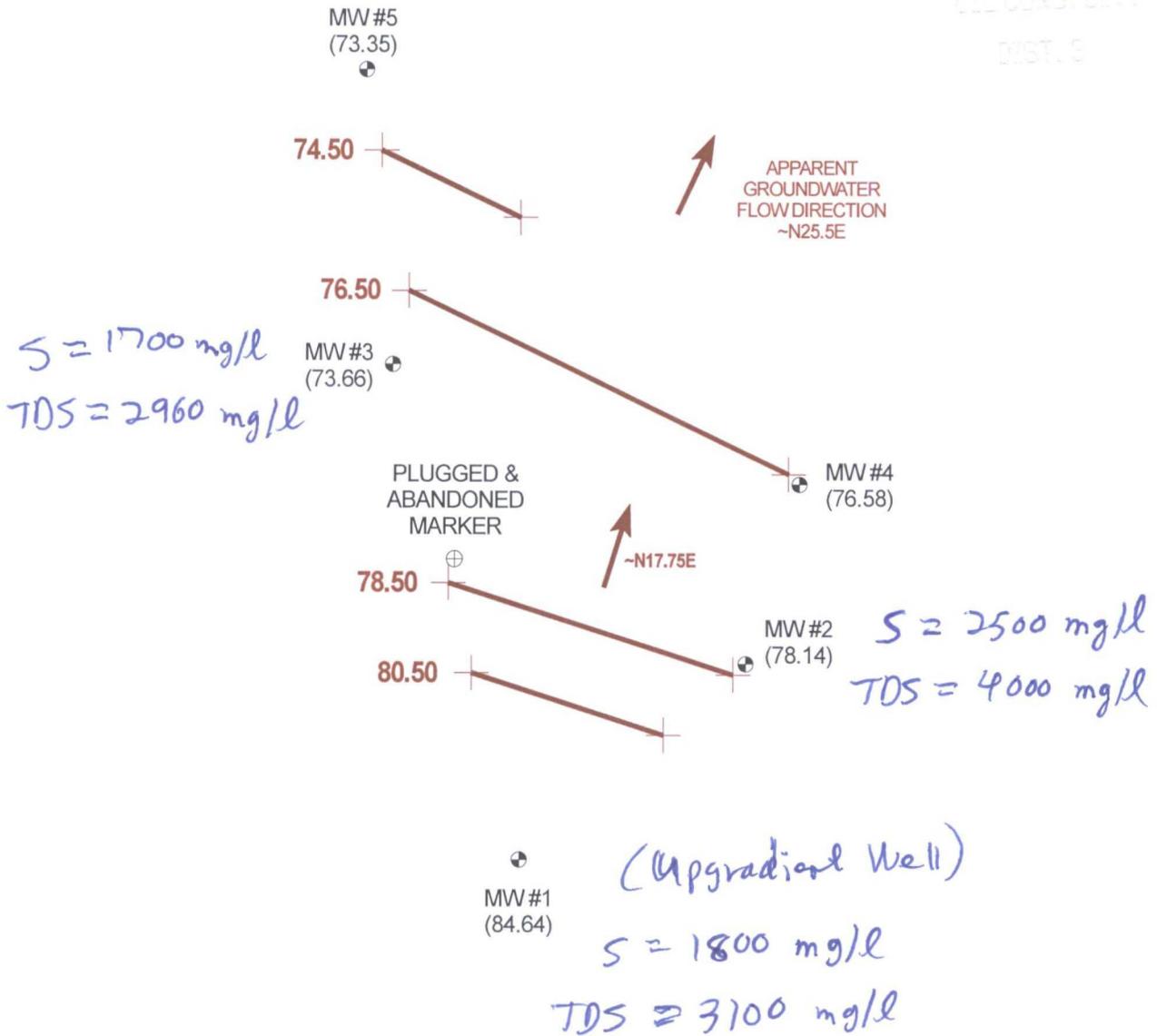
(505) 326-9479

Peace.jeffrey@bp.com

FIGURE 2 (2nd 1/4, 2014)



ROUND AUG 29 11:47
ECL CONS. DIV.
DIST. 5



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE PLUGGED & ABANDONED MARKER (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

| | Top of Well Elevation |
|---------------------------|---------------------------------------|
| MW#1 | (106.12) |
| MW#2 | (101.92) |
| MW#3 | (102.35) |
| MW#4 | (100.06) |
| MW#5 | (100.00) |
| (Initial Reference Point) | |
| ⊕ MW#1 (84.64) | Groundwater Elevation as of 04/18/14. |

0 40 80 FT.

BP AMERICA PRODUCTION CO.
FLORANCE# 100
SE/4 SE/4 SEC. 30, T30N, R08W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SURVEY
DRAWN BY: NJV
FILENAME: FLORANCE 100-GW01.SKF
DRAFTED: 04-18-14 NJV

GROUNDWATER
CONTOUR
MAP
04/14

BP AMERICA PRODUCTION COMPANY

Florance # 100 - (Release of Unknown Source[s])

Unit Letter P, Section 30, T30N, R08W - API Number: 30-045-20064

| SAMPLE ID | SAMPLE DATE | SAMPLE TIME | APPROX. DEPTH TO WATER BELOW GRADE (feet) | APPROX. TOTAL DEPTH OF TEST WELL BELOW GRADE (feet) | Conductivity (µmhos/cm) | Temperature (°Celcius) | Volume Purged (gallons) | pH | TDS (mg/L) | Sulfate (mg/L) | Iron (mg/L) | Benzene (ppb) | Toluene (ppb) | Ethyl - benzene (ppb) | Total Xylenes (ppb) | |
|----------------------------------|-------------|-------------|---|---|-------------------------|------------------------|-------------------------|------|------------|----------------|-------------|---------------|---------------|-----------------------|---------------------|-----|
| MW # 1 (background) | 04/16/14 | 0920 | 19.08 | 32.94 | 1,100 | 13.3 | 6.75 | 6.50 | 3,100 | 1,800 | 0.22 | ND | ND | ND | ND | |
| MW # 2 (source) | 04/16/14 | 1025 | 21.58 | 34.06 | 1,800 | 14.2 | 6.25 | 6.51 | 4,000 | 2,500 | 1.1 | ND | ND | ND | ND | |
| MW # 3 (source) | 04/16/14 | 1130 | 26.39 | 31.79 | 1,500 | 14.4 | 2.75 | 6.52 | 2,960 | 1,700 | 0.30 | ND | ND | ND | ND | |
| NMWQCC STANDARDS (groundwater) - | | | | | | | | | 6 - 9 | 1,000 | 600 | 1.0 | 10 | 750 | 750 | 620 |

Notes:

TDS - Total dissolved solids
mg/L - Milligram per Liter.
ppb - Parts per billion or microgram per liter (µg/L).

ND - Not detected at Reporting Limit.
NMWQCC - New Mexico Water Quality Control Commission.



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

April 24, 2014

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

RE: Florance #100

OrderNo.: 1404805

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/17/2014 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.

CLIENT: Blagg Engineering

Client Sample ID: MW #1

Project: Florance #100

Collection Date: 4/16/2014 9:20:00 AM

Lab ID: 1404805-001

Matrix: AQUEOUS

Received Date: 4/17/2014 10:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 1.0 | | µg/L | 1 | 4/17/2014 11:48:46 PM | R18059 |
| Toluene | ND | 1.0 | | µg/L | 1 | 4/17/2014 11:48:46 PM | R18059 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 4/17/2014 11:48:46 PM | R18059 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 4/17/2014 11:48:46 PM | R18059 |
| Surr: 4-Bromofluorobenzene | 91.8 | 82.9-139 | | %REC | 1 | 4/17/2014 11:48:46 PM | R18059 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | ND | 0.50 | | mg/L | 5 | 4/17/2014 1:46:03 PM | R18079 |
| Chloride | 12 | 2.5 | | mg/L | 5 | 4/17/2014 1:46:03 PM | R18079 |
| Nitrogen, Nitrate (As N) | ND | 0.50 | | mg/L | 5 | 4/17/2014 1:46:03 PM | R18079 |
| Sulfate | 1800 | 25 | * | mg/L | 50 | 4/18/2014 5:36:55 PM | R18097 |
| EPA METHOD 200.7: METALS | | | | | | | Analyst: JLF |
| Iron | 0.22 | 0.020 | | mg/L | 1 | 4/22/2014 12:17:22 PM | 12794 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 3100 | 40.0 | * | mg/L | 1 | 4/18/2014 6:30:00 PM | 12772 |

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#: 1404805

24-Apr-14

Client: Blagg Engineering

Project: Florance #100

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID | MB-12794 | SampType: | MBLK | TestCode: | EPA Method 200.7: Metals | | | | | |
| Client ID: | PBW | Batch ID: | 12794 | RunNo: | 18147 | | | | | |
| Prep Date: | 4/21/2014 | Analysis Date: | 4/22/2014 | SeqNo: | 523601 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | ND | 0.020 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID | LCS-12794 | SampType: | LCS | TestCode: | EPA Method 200.7: Metals | | | | | |
| Client ID: | LCSW | Batch ID: | 12794 | RunNo: | 18147 | | | | | |
| Prep Date: | 4/21/2014 | Analysis Date: | 4/22/2014 | SeqNo: | 523602 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 0.53 | 0.020 | 0.5000 | 0 | 106 | 85 | 115 | | | |

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#: 1404805

24-Apr-14

Client: Blagg Engineering
Project: Florance #100

| Sample ID MB | SampType: MBLK | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|--------------------------|---------------------------------|------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R18079 | | RunNo: 18079 | | | | | | | |
| Prep Date: | Analysis Date: 4/17/2014 | | SeqNo: 521839 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0.10 | | | | | | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |

| Sample ID LCS | SampType: LCS | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|--------------------------|---------------------------------|------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSW | Batch ID: R18079 | | RunNo: 18079 | | | | | | | |
| Prep Date: | Analysis Date: 4/17/2014 | | SeqNo: 521840 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.49 | 0.10 | 0.5000 | 0 | 97.7 | 90 | 110 | | | |
| Chloride | 4.6 | 0.50 | 5.000 | 0 | 92.6 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.4 | 0.10 | 2.500 | 0 | 97.2 | 90 | 110 | | | |

| Sample ID MB | SampType: MBLK | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|-----------------------|---------------------------------|------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R18097 | | RunNo: 18097 | | | | | | | |
| Prep Date: | Analysis Date: 4/18/2014 | | SeqNo: 522465 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | ND | 0.50 | | | | | | | | |

| Sample ID LCS | SampType: LCS | | TestCode: EPA Method 300.0: Anions | | | | | | | |
|------------------------|---------------------------------|------|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSW | Batch ID: R18097 | | RunNo: 18097 | | | | | | | |
| Prep Date: | Analysis Date: 4/18/2014 | | SeqNo: 522466 | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | 10 | 0.50 | 10.00 | 0 | 101 | 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#: 1404805

24-Apr-14

Client: Blagg Engineering
Project: Florance #100

| Sample ID | 5ML-RB2 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|----------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBW | Batch ID: | R18059 | RunNo: | 18059 | | | | | |
| Prep Date: | | Analysis Date: | 4/17/2014 | SeqNo: | 521759 | Units: | µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 2.0 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 18 | | 20.00 | | 91.1 | 82.9 | 139 | | | |

| Sample ID | 100NG BTEX LCS | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSW | Batch ID: | R18059 | RunNo: | 18059 | | | | | |
| Prep Date: | | Analysis Date: | 4/17/2014 | SeqNo: | 521760 | Units: | µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Toluene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 63 | 2.0 | 60.00 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 18 | | 20.00 | | 91.0 | 82.9 | 139 | | | |

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1404805

RcptNo: 1

Received by/date: AG 04/17/14

Logged By: **Michelle Garcia** 4/17/2014 10:10:00 AM *Michelle Garcia*

Completed By: **Michelle Garcia** 4/17/2014 10:54:43 AM *Michelle Garcia*

Reviewed By: *[Signature]* 04/17/14

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: 6
 (<2 or >12 unless noted)

Adjusted? No

Checked by: CS

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

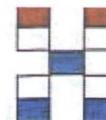
| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.0 | Good | Yes | | | |

Chain-of-Custody Record

Full-Analysis Time:

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

Standard Rush



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Mailing Address: **P.O. BOX 87**

Project Name:

FLORANCE # 100

BLOOMFIELD, NM 87413

Project #:

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

Project Manager:

NELSON VELEZ

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other _____

EDD (Type) _____

Sampler: **NELSON VELEZ** *NV*

On Ice: Yes No

Sample Temperature: **10**

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + MBO (8021B) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄) | Total Dissolved Solids | Iron, Ferrous (filtered) | Nitrate N / Nitrite N | Grab sample | 5 pt. composite sample | |
|---------|------|--------|-------------------|----------------------|---------------------------------------|----------|---------------------------|------------------------------|-----------------------------|--------------------|--------------------|------------------------|---------------|--|------------------------|--------------------------|-----------------------|-------------|------------------------|---|
| 4/16/14 | 0920 | WATER | MW # 1 | 40 ml VOA - 2 | HCl & Cool | -001 | ✓ | | | | | | | | | | | | ✓ | |
| 4/16/14 | 0920 | WATER | MW # 1 | 500 ml - 1 | Cool | -001 | | | | | | | | ✓ | ✓ | | | | | ✓ |
| 4/16/14 | 0920 | WATER | MW # 1 | 125 ml - 1 | HNO ₃ & Cool | -001 | | | | | | | | | | ✓ | | | | ✓ |
| 4/16/14 | 0920 | WATER | MW # 1 | 125 ml - 1 | H ₂ SO ₄ & Cool | -001 | | | | | | | | | | | ✓ | | | ✓ |
| 4/16/14 | 1025 | WATER | MW # 2 | 40 ml VOA - 2 | HCl & Cool | -002 | ✓ | | | | | | | | | | | | | ✓ |
| 4/16/14 | 1025 | WATER | MW # 2 | 500 ml - 1 | Cool | -002 | | | | | | | | ✓ | ✓ | | | | | ✓ |
| 4/16/14 | 1025 | WATER | MW # 2 | 125 ml - 1 | HNO ₃ & Cool | -002 | | | | | | | | | | ✓ | | | | ✓ |
| 4/16/14 | 1025 | WATER | MW # 2 | 125 ml - 1 | H ₂ SO ₄ & Cool | -002 | | | | | | | | | | | ✓ | | | ✓ |
| 4/16/14 | 1130 | WATER | MW # 3 | 40 ml VOA - 2 | HCl & Cool | -003 | ✓ | | | | | | | | | | | | | ✓ |
| 4/16/14 | 1130 | WATER | MW # 3 | 500 ml - 1 | Cool | -003 | | | | | | | | ✓ | ✓ | | | | | ✓ |
| 4/16/14 | 1130 | WATER | MW # 3 | 125 ml - 1 | HNO ₃ & Cool | -003 | | | | | | | | | | ✓ | | | | ✓ |
| 4/16/14 | 1130 | WATER | MW # 3 | 125 ml - 1 | H ₂ SO ₄ & Cool | -003 | | | | | | | | | | | ✓ | | | ✓ |

Date: **4/16/14** Time: **1505** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **4/16/14** Time: **1505**

Remarks: **Send invoice to:**

Date: **4/16/14** Time: **1710** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **04/17/14** Time: **10:10**

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.

Soil IIR

District I
625 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

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 100 | Facility Type: Natural gas well |
| Surface Owner: Federal | Mineral Owner: Federal |
| API No. 3004520064 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|----------------------|------------------------|------------------|
| Unit Letter P | Section 30 | Township 30N | Range 8W | Feet from the 1,170 | North/South Line South | Feet from the 945 | East/West Line East | County: San Juan |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|----------------------|------------------------|------------------|

Latitude 36.77837 Longitude 107.71039

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: condensate/oil – historic release | Volume of Release: unknown | Volume Recovered: NA |
| Source of Release: unknown – likely earthen pit | Date and Hour of Occurrence: unknown | Date and Hour of Discovery: 9/26/2013; 1:00 PM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour: | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

RCVD FEB 19 '14
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Soil impacts were discovered during contouring for final P&A reclamation. Initial investigation determine impacts were widespread. Exploratory drilling was done to determine the depth and lateral extent of the impacts. Once impacted area was defined the contaminated soil was removed and hauled to the IEI landfarm for treatment. Clean soil was used to backfill the excavation. 3,608 cubic yards of soil was taken to the landfarm.

Describe Area Affected and Cleanup Action Taken.* Impacted soil was excavated and removed. Approximately 3,608 cubic yards of impacted soil was taken to IEI landfarm for treatment. Excavated area was backfilled with clean soil. Since excavation depth reached groundwater, groundwater monitor wells will be installed to check water quality.

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: <i>Jeff Peace</i> | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: Jeff Peace | Approved by Environmental Specialist: <i>XXX</i> | |
| Title: Field Environmental Advisor | Approval Date: | Expiration Date: |
| E-mail Address: peace.jeffrey@bp.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: February 12, 2014 | Phone: 505-326-9479 | |

*Investigation Incomplete
Additional Info Requested. CS.*

* Attach Additional Sheets If Necessary

BP AMERICA PRODUCTION COMPANY

FLORANCE 100 – HISTORICAL (LEGACY) RELEASE CLEANUP

API #: 30-045-20064

Legal Description: (Unit Letter P, Sec. 30 - T30N - R8W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. September 26, 2013: Soil impacts discovered (74' South 68° East of PxA Marker) with dozer while re-contouring site for final PxA operations. Original source event not evident and local pipeline operators (Enterprise and Williams) contacted to determine if they might be owners. Pipeline operators indicated they had no record of waste discharges in the impact area. BP initiates plan for cleanup effort.
2. September 27, 2013: BP begins remediation by excavation with trackhoe.
3. October 17, 2013: Conduct GeoProbe investigation to determine extent of impacts in areas of live pipelines.
4. November 15-19, 2013: Additional GeoProbe investigation to further delineate extent of impacts. Second potential impact area discovered with GeoProbe at 47' North 16.5° East of PxA marker. Original source event could not be determined.
5. December 13, 2013: Complete excavation of impacts. Total of 3,608 cubic yards of soil removed and transported to BP Crouch Mesa Landfarm in San Juan County, NM for final remediation.

FLORANCE 100

NE Wall
Sampled 12/5/13

Williams Pipeline

Enterprise Pipeline

West Wall
Sampled 12/12/13

NE Wall
Sampled 11/15/15

Excavation
(Average Depth
30 feet below grade)

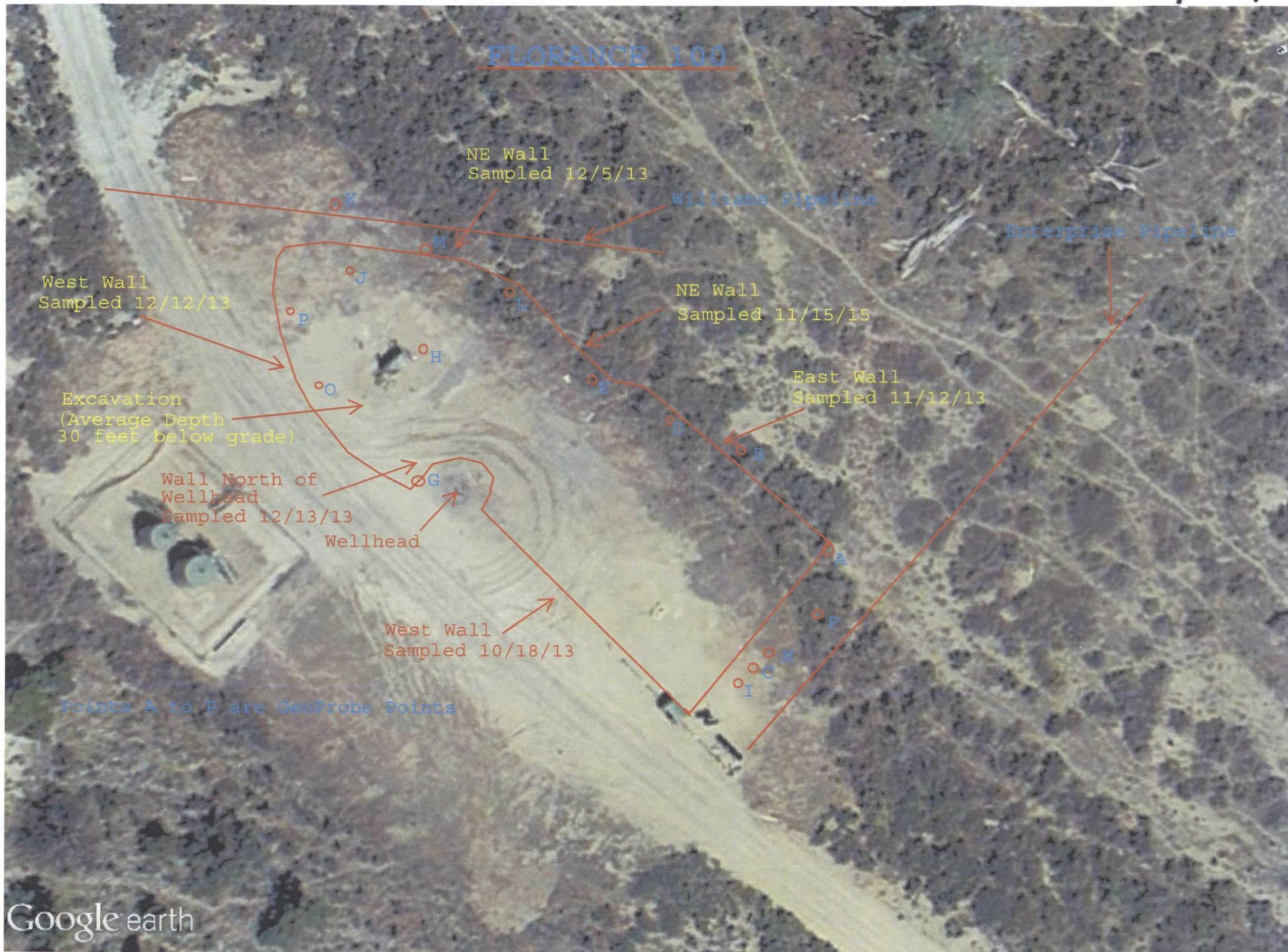
East Wall
Sampled 11/12/13

Wall North of
Wellhead
Sampled 12/13/13

Wellhead

West Wall
Sampled 10/18/13

Points A to P are GeoProbe Points





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

October 25, 2013

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: FLORANCE 100

OrderNo.: 1310948

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/19/2013 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 1310948

Date Reported: 10/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 42' S42E @ -26'

Project: FLORANCE 100

Collection Date: 10/16/2013 3:20:00 PM

Lab ID: 1310948-001

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/22/2013 1:38:42 PM | 9920 |
| Surr: DNOP | 97.2 | 66-131 | | %REC | 1 | 10/22/2013 1:38:42 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 1:29:46 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 99.3 | 70-130 | | %REC | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Surr: 4-Bromofluorobenzene | 96.1 | 70-130 | | %REC | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Surr: Dibromofluoromethane | 107 | 70-130 | | %REC | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Surr: Toluene-d8 | 88.9 | 70-130 | | %REC | 1 | 10/22/2013 8:06:18 PM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/22/2013 8:06:18 PM | 9929 |
| Surr: BFB | 96.1 | 70-130 | | %REC | 1 | 10/22/2013 8:06:18 PM | 9929 |

Sample Collected at base of excavation SW of wellhead

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

| | |
|---|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only. RL Reporting Detection Limit |
|---|---|

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: W SIDEWALL 5-pt @ 10'-20'

Project: FLORANCE 100

Collection Date: 10/18/2013 9:32:00 AM

Lab ID: 1310948-002

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 32 | 9.9 | | mg/Kg | 1 | 10/22/2013 2:00:37 PM | 9920 |
| Surr: DNOP | 96.2 | 66-131 | | %REC | 1 | 10/22/2013 2:00:37 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 110 | 30 | | mg/Kg | 20 | 10/21/2013 1:42:11 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 96.6 | 70-130 | | %REC | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Surr: 4-Bromofluorobenzene | 94.7 | 70-130 | | %REC | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Surr: Dibromofluoromethane | 103 | 70-130 | | %REC | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Surr: Toluene-d8 | 85.2 | 70-130 | | %REC | 1 | 10/22/2013 9:32:14 PM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/22/2013 9:32:14 PM | 9929 |
| Surr: BFB | 94.7 | 70-130 | | %REC | 1 | 10/22/2013 9:32:14 PM | 9929 |

Sample collected along SW sidewall, south of wellhead.

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310948

Date Reported: 10/25/2013

CLIENT: Blagg Engineering

Client Sample ID: GP-A @ 20'

Project: FLORANCE 100

Collection Date: 10/17/2013 10:26:00 AM

Lab ID: 1310948-003

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/22/2013 2:44:40 PM | 9920 |
| Surr: DNOP | 93.8 | 66-131 | | %REC | 1 | 10/22/2013 2:44:40 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 1:54:36 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.046 | | mg/Kg | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %REC | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Surr: 4-Bromofluorobenzene | 96.5 | 70-130 | | %REC | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Surr: Dibromofluoromethane | 111 | 70-130 | | %REC | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Surr: Toluene-d8 | 94.5 | 70-130 | | %REC | 1 | 10/23/2013 1:21:26 AM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 10/23/2013 1:21:26 AM | 9929 |
| Surr: BFB | 96.5 | 70-130 | | %REC | 1 | 10/23/2013 1:21:26 AM | 9929 |

GeoProbe Point A
at 20' depth

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-B @ 18'

Project: FLORANCE 100

Collection Date: 10/17/2013 12:42:00 PM

Lab ID: 1310948-004

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/22/2013 3:06:41 PM | 9920 |
| Surr: DNOP | 93.8 | 66-131 | | %REC | 1 | 10/22/2013 3:06:41 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 2:07:00 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 102 | 70-130 | | %REC | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Surr: 4-Bromofluorobenzene | 93.9 | 70-130 | | %REC | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %REC | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Surr: Toluene-d8 | 86.8 | 70-130 | | %REC | 1 | 10/23/2013 1:50:02 AM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/23/2013 1:50:02 AM | 9929 |
| Surr: BFB | 93.9 | 70-130 | | %REC | 1 | 10/23/2013 1:50:02 AM | 9929 |

GeoProbe Point B
at 18' depth

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-D @ 23'

Project: FLORANCE 100

Collection Date: 10/18/2013 10:02:00 AM

Lab ID: 1310948-005

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|----------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 710 | 10 | | mg/Kg | 1 | 10/22/2013 3:28:42 PM | 9920 |
| Surr: DNOP | 115 | 66-131 | | %REC | 1 | 10/22/2013 3:28:42 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 2:19:25 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: cadg |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 114 | 70-130 | | %REC | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | | %REC | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Surr: Dibromofluoromethane | 113 | 70-130 | | %REC | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Surr: Toluene-d8 | 95.6 | 70-130 | | %REC | 1 | 10/23/2013 6:35:52 PM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: cadg |
| Gasoline Range Organics (GRO) | 77 | 4.7 | | mg/Kg | 1 | 10/23/2013 6:35:52 PM | 9929 |
| Surr: BFB | 106 | 70-130 | | %REC | 1 | 10/23/2013 6:35:52 PM | 9929 |

GeoProbe Point D
at 23 foot depth.
Subsequently
excavated.

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-E @ 24'

Project: FLORANCE 100

Collection Date: 10/18/2013 11:14:00 AM

Lab ID: 1310948-006

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 310 | 10 | | mg/Kg | 1 | 10/22/2013 3:50:45 PM | 9920 |
| Surr: DNOP | 101 | 66-131 | | %REC | 1 | 10/22/2013 3:50:45 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 2:31:50 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 105 | 70-130 | | %REC | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Surr: 4-Bromofluorobenzene | 89.0 | 70-130 | | %REC | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %REC | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Surr: Toluene-d8 | 94.5 | 70-130 | | %REC | 1 | 10/23/2013 2:47:12 AM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/23/2013 2:47:12 AM | 9929 |
| Surr: BFB | 89.0 | 70-130 | | %REC | 1 | 10/23/2013 2:47:12 AM | 9929 |

GeoProbe Point E
at 24 foot depth.
Subsequently
Excavated.

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

| | | |
|--------------------|---|---|
| Qualifiers: | <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only. RL Reporting Detection Limit |
|--------------------|---|---|

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-F @ 20'

Project: FLORANCE 100

Collection Date: 10/18/2013 12:17:00 PM

Lab ID: 1310948-007

Matrix: SOIL

Received Date: 10/19/2013 11:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 10/22/2013 4:12:45 PM | 9920 |
| Surr: DNOP | 97.4 | 66-131 | | %REC | 1 | 10/22/2013 4:12:45 PM | 9920 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 10/21/2013 2:44:15 PM | 9931 |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | | Analyst: RAA |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Surr: 1,2-Dichloroethane-d4 | 100 | 70-130 | | %REC | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Surr: 4-Bromofluorobenzene | 98.0 | 70-130 | | %REC | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Surr: Dibromofluoromethane | 101 | 70-130 | | %REC | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Surr: Toluene-d8 | 88.9 | 70-130 | | %REC | 1 | 10/23/2013 3:15:46 AM | 9929 |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/23/2013 3:15:46 AM | 9929 |
| Surr: BFB | 98.0 | 70-130 | | %REC | 1 | 10/23/2013 3:15:46 AM | 9929 |

GeoProbe Point F
at 20 foot Depth.
Located between
south edge of
location and
Enterprise pipeline.
Hit Sandstone at
20' depth

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 for VOA and TOC only. |
| | 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#: 1310948

25-Oct-13

Client: Blagg Engineering
Project: FLORANCE 100

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-9931 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 9931 | RunNo: | 14237 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/21/2013 | SeqNo: | 407870 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-9931 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 9931 | RunNo: | 14237 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/21/2013 | SeqNo: | 407871 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.9 | 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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310948

25-Oct-13

Client: Blagg Engineering

Project: FLORANCE 100

| | | | | | | | | | | |
|-----------------------------|------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-9920 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 9920 | RunNo: | 14215 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/21/2013 | SeqNo: | 407543 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 103 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-9920 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 9920 | RunNo: | 14215 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/21/2013 | SeqNo: | 407544 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 77.1 | 128 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.0 | 66 | 131 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310948
25-Oct-13

Client: Blagg Engineering
Project: FLORANCE 100

| Sample ID | mb-9929 | SampType: | MBLK | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409097 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 103 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.56 | | 0.5000 | | 111 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.47 | | 0.5000 | | 94.7 | 70 | 130 | | | |

| Sample ID | mb-9929 | SampType: | MBLK | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409512 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 103 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.56 | | 0.5000 | | 111 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.47 | | 0.5000 | | 94.7 | 70 | 130 | | | |

| Sample ID | LCS-9929 | SampType: | LCS | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409534 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 70 | 130 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.8 | 69.9 | 139 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 70 | 130 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 108 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 105 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.47 | | 0.5000 | | 93.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.5000 | | 95.2 | 70 | 130 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310948

25-Oct-13

Client: Blagg Engineering

Project: FLORANCE 100

| Sample ID | mb-9907 | SampType: | MBLK | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|-----------------------------|----------------|----------------|-------------------|-------------|---|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | R14280 | RunNo: | 14280 | | | | | |
| Prep Date: | | Analysis Date: | 10/23/2013 | SeqNo: | 410558 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.49 | | 0.5000 | | 97.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.46 | | 0.5000 | | 91.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.53 | | 0.5000 | | 107 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.44 | | 0.5000 | | 88.1 | 70 | 130 | | | |

| Sample ID | LCS-9907 | SampType: | LCS | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
|-----------------------------|-----------------|----------------|-------------------|-------------|---|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | R14280 | RunNo: | 14280 | | | | | |
| Prep Date: | | Analysis Date: | 10/23/2013 | SeqNo: | 410563 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.53 | | 0.5000 | | 106 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.6 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 110 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.45 | | 0.5000 | | 89.7 | 70 | 130 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310948

25-Oct-13

Client: Blagg Engineering
Project: FLORANCE 100

| Sample ID | mb-9929 | SampType: | MBLK | TestCode: | EPA Method 8015D Mod: Gasoline Range | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409104 | 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 | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| Sample ID | mb-9929 | SampType: | MBLK | TestCode: | EPA Method 8015D Mod: Gasoline Range | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409535 | 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 | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| Sample ID | LCS-9929 | SampType: | LCS | TestCode: | EPA Method 8015D Mod: Gasoline Range | | | | | |
|-------------------------------|-------------------|----------------|-------------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 9929 | RunNo: | 14255 | | | | | |
| Prep Date: | 10/21/2013 | Analysis Date: | 10/22/2013 | SeqNo: | 409536 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.1 | 80 | 120 | | | |
| Surr: BFB | 450 | | 500.0 | | 90.2 | 70 | 130 | | | |

Qualifiers:

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



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: **1310948**

RcptNo: **1**

Received by/date: AF 10/19/13

Logged By: **Andy Freeman** 10/19/2013 11:00:00 AM *[Signature]*

Completed By: **Anne Thorne** 10/21/2013 *[Signature]*

Reviewed By: *[Signature]* 10/21/13

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | 4.0 | Good | Yes | | | |

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC.
BP AMERICA
 Mailing Address: P.O. Box 97
BLOOMFIELD NM 87413
 Phone #: 505-632-1199
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time: WED. 10/23/13
 Standard Rush
 Project Name: FLORANCE 100
 Project #:
 Project Manager: J. Blagg
 Sampler: J. Blagg
 On Ice: Yes No
 Sample Temperature: 4.0



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 + THBS (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / WRS) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | 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 | Air Bubbles (Y or N) | |
|---------|------|--------|------------------------------|----------------------|-------------------|---------|---------------------------|------------------------------|-----------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------|----------------------|--|
| 9/16/13 | 1520 | SOIL | 42' S42E @ -26' | 4oz x 1 | COOL | 1310948 | -001 | X | X | | | | | | | | | | X | |
| 9/18/13 | 0932 | " | WEST SIDEWALL 5-PT @ 10'-20' | " | " | | -002 | X | X | | | | | | | | | | X | |
| 9/17/13 | 1026 | " | GP-A @ 20' | " | " | | -003 | X | X | | | | | | | | | | X | |
| " | 1242 | " | GP-B @ 18' | " | " | | -004 | X | X | | | | | | | | | | X | |
| 9/18/13 | 1002 | " | GP-D @ 23' | " | " | | -005 | X | X | | | | | | | | | | X | |
| " | 1114 | " | GP-E @ 24' | " | " | | -006 | X | X | | | | | | | | | | X | |
| " | 1217 | " | GP-F @ 20' | " | " | | -007 | X | X | | | | | | | | | | X | |

Date: 9/18/2013 Time: 1421 Relinquished by: Jeff Blagg
 Date: 9/18/13 Time: 1700 Relinquished by: Christine Waaler
 Received by: Christine Waaler Date: 10/18/2013 Time: 1421
 Received by: Andy Date: 10/19/13 Time: 11:00

Remarks: BILL BP
PAYKEY: ZFEIRKOSJS
CONTACT: JEFF PEACE

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

November 19, 2013

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX

RE: Florance 100

OrderNo.: 1311585

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/14/2013 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.

CLIENT: Blagg Engineering

Project: Florance 100

Lab ID: 1311585-001

Matrix: SOIL

Client Sample ID: East Wall 9-point comp. 8' -24'

Collection Date: 11/12/2013 2:50:00 PM

Received Date: 11/14/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/15/2013 12:20:44 PM | 10337 |
| Surr: DNOP | 90.3 | 66-131 | | %REC | 1 | 11/15/2013 12:20:44 PM | 10337 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 11/16/2013 4:07:47 AM | 10349 |
| Surr: BFB | 94.4 | 74.5-129 | | %REC | 1 | 11/16/2013 4:07:47 AM | 10349 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 11/16/2013 4:07:47 AM | 10349 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 11/16/2013 4:07:47 AM | 10349 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 11/16/2013 4:07:47 AM | 10349 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 11/16/2013 4:07:47 AM | 10349 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 11/16/2013 4:07:47 AM | 10349 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/15/2013 1:58:02 PM | 10359 |

East Wall, along south end of excavation, sampled to confirm excavation closure.

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

| | |
|---|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only. RL Reporting Detection Limit |
|---|---|

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311585

19-Nov-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10359 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 10359 | RunNo: | 14851 | | | | | |
| Prep Date: | 11/15/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 428021 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10359 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 10359 | RunNo: | 14851 | | | | | |
| Prep Date: | 11/15/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 428022 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.8 | 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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311585

19-Nov-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-10337 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10337 | RunNo: | 14826 | | | | | |
| Prep Date: | 11/14/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 427453 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 10 | 50.00 | 0 | 87.4 | 62.1 | 127 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 87.3 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-10337 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10337 | RunNo: | 14826 | | | | | |
| Prep Date: | 11/14/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 427454 | 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 | | 81.6 | 66 | 131 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311585

19-Nov-13

Client: Blagg Engineering
Project: Florance 100

| Sample ID: MB-10349 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10349 | RunNo: 14837 | | | | | | | | |
| Prep Date: 11/14/2013 | Analysis Date: 11/15/2013 | SeqNo: 427700 | 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 | 900 | | 1000 | | 89.8 | 74.5 | 129 | | | |

| Sample ID: LCS-10349 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10349 | RunNo: 14837 | | | | | | | | |
| Prep Date: 11/14/2013 | Analysis Date: 11/15/2013 | SeqNo: 427707 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 99.2 | 74.5 | 126 | | | |
| Surr: BFB | 980 | | 1000 | | 98.0 | 74.5 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311585

19-Nov-13

Client: Blagg Engineering

Project: Florance 100

| Sample ID | MB-10349 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 10349 | RunNo: | 14837 | | | | | |
| Prep Date: | 11/14/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 427782 | 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 | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

| Sample ID | LCS-10349 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 10349 | RunNo: | 14837 | | | | | |
| Prep Date: | 11/14/2013 | Analysis Date: | 11/15/2013 | SeqNo: | 427783 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 105 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1311585

RcptNo: 1

Received by/date: AG 11/14/13

Logged By: **Michelle Garcia** 11/14/2013 10:00:00 AM *Michelle Garcia*

Completed By: **Michelle Garcia** 11/14/2013 10:15:11 AM *Michelle Garcia*

Reviewed By: *[Signature]* 11/14/13

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 | | | |



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

November 26, 2013

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX

RE: Florance 100

OrderNo.: 1311953

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 12 sample(s) on 11/21/2013 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NE Wall 9-pt comp. @ 8'-24'

Project: Florance 100

Collection Date: 11/15/2013 9:15:00 AM

Lab ID: 1311953-001

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 11/25/2013 10:32:13 AM | 10474 |
| Surr: DNOP | 98.5 | 66-131 | | %REC | 1 | 11/25/2013 10:32:13 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/22/2013 3:17:09 PM | 10465 |
| Surr: BFB | 92.6 | 74.5-129 | | %REC | 1 | 11/22/2013 3:17:09 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 3:17:09 PM | 10465 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 3:17:09 PM | 10465 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 3:17:09 PM | 10465 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 11/22/2013 3:17:09 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 11/22/2013 3:17:09 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 35 | 30 | | mg/Kg | 20 | 11/22/2013 3:49:34 PM | 10486 |

Northeast sidewall,
along East side, to
confirm excavation
closure.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-I @ 30'

Project: Florance 100

Collection Date: 11/15/2013 2:35:00 PM

Lab ID: 1311953-002

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/25/2013 11:37:31 AM | 10474 |
| Surr: DNOP | 99.6 | 66-131 | | %REC | 1 | 11/25/2013 11:37:31 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/22/2013 3:45:40 PM | 10465 |
| Surr: BFB | 91.4 | 74.5-129 | | %REC | 1 | 11/22/2013 3:45:40 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/22/2013 3:45:40 PM | 10465 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/22/2013 3:45:40 PM | 10465 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/22/2013 3:45:40 PM | 10465 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/22/2013 3:45:40 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 11/22/2013 3:45:40 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 4:26:49 PM | 10486 |

GeoProbe Point I
at 30 foot depth.

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-I @ 4-pt comp 12'-24'

Project: Florance 100

Collection Date: 11/15/2013 1:50:00 PM

Lab ID: 1311953-003

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/25/2013 11:59:26 AM | 10474 |
| Surr: DNOP | 95.6 | 66-131 | | %REC | 1 | 11/25/2013 11:59:26 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 11/22/2013 4:14:15 PM | 10465 |
| Surr: BFB | 91.6 | 74.5-129 | | %REC | 1 | 11/22/2013 4:14:15 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 4:14:15 PM | 10465 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 4:14:15 PM | 10465 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 4:14:15 PM | 10465 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 11/22/2013 4:14:15 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 11/22/2013 4:14:15 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 110 | 30 | | mg/Kg | 20 | 11/22/2013 4:39:14 PM | 10486 |

GeoProbe Point I
4-point composite
from 12' - 24'
depth.

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-J @ 27'-28'

Project: Florance 100

Collection Date: 11/18/2013 10:04:00 AM

Lab ID: 1311953-004

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 1300 | 100 | | mg/Kg | 10 | 11/25/2013 2:33:00 PM | 10474 |
| Surr: DNOP | 0 | 66-131 | S | %REC | 10 | 11/25/2013 2:33:00 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 420 | 25 | | mg/Kg | 5 | 11/25/2013 1:48:13 PM | 10465 |
| Surr: BFB | 752 | 74.5-129 | S | %REC | 5 | 11/25/2013 1:48:13 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.25 | | mg/Kg | 5 | 11/25/2013 1:48:13 PM | 10465 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 11/25/2013 1:48:13 PM | 10465 |
| Ethylbenzene | 1.7 | 0.25 | | mg/Kg | 5 | 11/25/2013 1:48:13 PM | 10465 |
| Xylenes, Total | 4.1 | 0.50 | | mg/Kg | 5 | 11/25/2013 1:48:13 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 149 | 80-120 | S | %REC | 5 | 11/25/2013 1:48:13 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 4:51:38 PM | 10486 |

GeoProbe Point J
at 27'-28' depth.
Subsequently
excavated.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1311953

Date Reported: 11/26/2013

CLIENT: Blagg Engineering

Client Sample ID: GP-K @ 30'-30.5'

Project: Florance 100

Collection Date: 11/18/2013 11:50:00 AM

Lab ID: 1311953-005

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 11/25/2013 12:43:15 PM | 10474 |
| Surr: DNOP | 97.4 | 66-131 | | %REC | 1 | 11/25/2013 12:43:15 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 11/22/2013 9:56:50 PM | 10465 |
| Surr: BFB | 90.2 | 74.5-129 | | %REC | 1 | 11/22/2013 9:56:50 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 9:56:50 PM | 10465 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 9:56:50 PM | 10465 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 9:56:50 PM | 10465 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 11/22/2013 9:56:50 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 11/22/2013 9:56:50 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 5:28:52 PM | 10486 |

GeoProbe Point K
at 30'-30.5' depth
(located north of
northern extent of
remediated area to
confirm no impacts
past pipeline)

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

| | |
|---|---|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only. RL Reporting Detection Limit |
|---|---|

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-L @ 25'-26'

Project: Florance 100

Collection Date: 11/18/2013 1:02:00 PM

Lab ID: 1311953-006

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/25/2013 1:05:04 PM | 10474 |
| Surr: DNOP | 95.2 | 66-131 | | %REC | 1 | 11/25/2013 1:05:04 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 11/22/2013 10:25:24 PM | 10465 |
| Surr: BFB | 88.8 | 74.5-129 | | %REC | 1 | 11/22/2013 10:25:24 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 10:25:24 PM | 10465 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 10:25:24 PM | 10465 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 11/22/2013 10:25:24 PM | 10465 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 11/22/2013 10:25:24 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %REC | 1 | 11/22/2013 10:25:24 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 5:41:16 PM | 10486 |

GeoProbe Point L
at 25'-26' depth.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-M @ 31'

Project: Florance 100

Collection Date: 11/18/2013 2:32:00 PM

Lab ID: 1311953-007

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/25/2013 1:27:02 PM | 10474 |
| Surr: DNOP | 94.7 | 66-131 | | %REC | 1 | 11/25/2013 1:27:02 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/22/2013 11:22:30 PM | 10465 |
| Surr: BFB | 89.8 | 74.5-129 | | %REC | 1 | 11/22/2013 11:22:30 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:22:30 PM | 10465 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:22:30 PM | 10465 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:22:30 PM | 10465 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 11/22/2013 11:22:30 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %REC | 1 | 11/22/2013 11:22:30 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 5:53:41 PM | 10486 |

GeoProbe Point M
at 31' depth.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-N 4 pt comp 12'-24'

Project: Florance 100

Collection Date: 11/18/2013 3:05:00 PM

Lab ID: 1311953-008

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 11/25/2013 1:48:59 PM | 10474 |
| Surr: DNOP | 87.7 | 66-131 | | %REC | 1 | 11/25/2013 1:48:59 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/22/2013 11:51:02 PM | 10465 |
| Surr: BFB | 90.0 | 74.5-129 | | %REC | 1 | 11/22/2013 11:51:02 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:51:02 PM | 10465 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:51:02 PM | 10465 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/22/2013 11:51:02 PM | 10465 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 11/22/2013 11:51:02 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 1 | 11/22/2013 11:51:02 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 130 | 30 | | mg/Kg | 20 | 11/22/2013 6:06:05 PM | 10486 |

GeoProbe Point N
4-point composite
from 12'-24' depth.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-N @ 28'

Project: Florance 100

Collection Date: 11/18/2013 4:15:00 PM

Lab ID: 1311953-009

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 11/25/2013 11:42:08 AM | 10474 |
| Surr: DNOP | 83.1 | 66-131 | | %REC | 1 | 11/25/2013 11:42:08 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/23/2013 12:19:32 AM | 10465 |
| Surr: BFB | 90.6 | 74.5-129 | | %REC | 1 | 11/23/2013 12:19:32 AM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/23/2013 12:19:32 AM | 10465 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/23/2013 12:19:32 AM | 10465 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/23/2013 12:19:32 AM | 10465 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/23/2013 12:19:32 AM | 10465 |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 1 | 11/23/2013 12:19:32 AM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 6:18:30 PM | 10486 |

GeoProbe Point N
at 28' depth.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-O @ 27'

Project: Florance 100

Collection Date: 11/19/2013 9:02:00 AM

Lab ID: 1311953-010

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 330 | 10 | | mg/Kg | 1 | 11/26/2013 9:53:46 AM | 10474 |
| Surr: DNOP | 97.0 | 66-131 | | %REC | 1 | 11/26/2013 9:53:46 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 8.5 | 4.8 | | mg/Kg | 1 | 11/25/2013 2:45:22 PM | 10465 |
| Surr: BFB | 110 | 74.5-129 | | %REC | 1 | 11/25/2013 2:45:22 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 11/25/2013 2:45:22 PM | 10465 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/25/2013 2:45:22 PM | 10465 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/25/2013 2:45:22 PM | 10465 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 11/25/2013 2:45:22 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | | %REC | 1 | 11/25/2013 2:45:22 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 6:30:55 PM | 10486 |

GeoProbe Point)
at 27' depth.
Subsequently
Excavated.

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-O @ 29'

Project: Florance 100

Collection Date: 11/19/2013 9:12:00 AM

Lab ID: 1311953-011

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 11/25/2013 12:42:35 PM | 10474 |
| Surr: DNOP | 76.2 | 66-131 | | %REC | 1 | 11/25/2013 12:42:35 PM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 11/23/2013 1:16:26 AM | 10465 |
| Surr: BFB | 88.5 | 74.5-129 | | %REC | 1 | 11/23/2013 1:16:26 AM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 11/23/2013 1:16:26 AM | 10465 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 11/23/2013 1:16:26 AM | 10465 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 11/23/2013 1:16:26 AM | 10465 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 11/23/2013 1:16:26 AM | 10465 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %REC | 1 | 11/23/2013 1:16:26 AM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 6:43:20 PM | 10486 |

GeoProbe Point O
at 29 foot depth.
Subsequently
excavated.

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 for VOA and TOC only. |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GP-O @ 30'

Project: Florance 100

Collection Date: 11/19/2013 11:05:00 AM

Lab ID: 1311953-012

Matrix: SOIL

Received Date: 11/21/2013 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 3100 | 100 | | mg/Kg | 10 | 11/26/2013 10:15:30 AM | 10474 |
| Surr: DNOP | 0 | 66-131 | S | %REC | 10 | 11/26/2013 10:15:30 AM | 10474 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | 700 | 24 | | mg/Kg | 5 | 11/25/2013 3:13:59 PM | 10465 |
| Surr: BFB | 1100 | 74.5-129 | S | %REC | 5 | 11/25/2013 3:13:59 PM | 10465 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.24 | | mg/Kg | 5 | 11/25/2013 3:13:59 PM | 10465 |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 11/25/2013 3:13:59 PM | 10465 |
| Ethylbenzene | 1.7 | 0.24 | | mg/Kg | 5 | 11/25/2013 3:13:59 PM | 10465 |
| Xylenes, Total | 4.9 | 0.47 | | mg/Kg | 5 | 11/25/2013 3:13:59 PM | 10465 |
| Surr: 4-Bromofluorobenzene | 183 | 80-120 | S | %REC | 5 | 11/25/2013 3:13:59 PM | 10465 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 11/22/2013 6:55:45 PM | 10486 |

GeoProbe Point O
at 30' depth.
Subsequently
excavated.

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 for VOA and TOC only. |
| | 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#: 1311953

26-Nov-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-10486 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 10486 | RunNo: | 15033 | | | | | |
| Prep Date: | 11/22/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 434229 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-10486 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 10486 | RunNo: | 15033 | | | | | |
| Prep Date: | 11/22/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 434230 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.2 | 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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311953

26-Nov-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-10474 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10474 | RunNo: | 14985 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 432946 | 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 | | 94.4 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-10474 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10474 | RunNo: | 14985 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 432958 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 10 | 50.00 | 0 | 114 | 62.1 | 127 | | | |
| Surr: DNOP | 5.2 | | 5.000 | | 104 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1311953-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | NE Wall 9-pt comp. | Batch ID: | 10474 | RunNo: | 15015 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/25/2013 | SeqNo: | 434386 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 49.85 | 0 | 100 | 47.4 | 148 | | | |
| Surr: DNOP | 4.8 | | 4.985 | | 96.0 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1311953-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | NE Wall 9-pt comp. | Batch ID: | 10474 | RunNo: | 15015 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/25/2013 | SeqNo: | 434387 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 9.9 | 49.60 | 0 | 99.0 | 47.4 | 148 | 1.59 | 22.7 | |
| Surr: DNOP | 4.6 | | 4.960 | | 92.2 | 66 | 131 | 0 | 0 | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-10502 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10502 | RunNo: | 15051 | | | | | |
| Prep Date: | 11/25/2013 | Analysis Date: | 11/26/2013 | SeqNo: | 434751 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 106 | 66 | 131 | | | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-10502 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10502 | RunNo: | 15051 | | | | | |
| Prep Date: | 11/25/2013 | Analysis Date: | 11/26/2013 | SeqNo: | 434752 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 5.2 | | 5.000 | | 105 | 66 | 131 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311953

26-Nov-13

Client: Blagg Engineering

Project: Florance 100

| Sample ID MB-10465 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10465 | RunNo: 14998 | | | | | | | | |
| Prep Date: 11/21/2013 | Analysis Date: 11/22/2013 | SeqNo: 434062 | | | 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 | 920 | | 1000 | | 92.3 | 74.5 | 129 | | | |

| Sample ID LCS-10465 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10465 | RunNo: 14998 | | | | | | | | |
| Prep Date: 11/21/2013 | Analysis Date: 11/22/2013 | SeqNo: 434063 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 97.3 | 74.5 | 126 | | | |
| Surr: BFB | 1000 | | 1000 | | 100 | 74.5 | 129 | | | |

| Sample ID MB-10482 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|------------------------------|----------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10482 | RunNo: 15061 | | | | | | | | |
| Prep Date: 11/22/2013 | Analysis Date: 11/25/2013 | SeqNo: 434684 | | | Units: %REC | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 930 | | 1000 | | 92.6 | 74.5 | 129 | | | |

| Sample ID LCS-10482 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|------------------------------|----------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10482 | RunNo: 15061 | | | | | | | | |
| Prep Date: 11/22/2013 | Analysis Date: 11/25/2013 | SeqNo: 434685 | | | Units: %REC | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 99.6 | 74.5 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311953
26-Nov-13

Client: Blagg Engineering
Project: Florance 100

| Sample ID | MB-10465 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 10465 | RunNo: | 14998 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 434092 | 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 | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

| Sample ID | LCS-10465 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 10465 | RunNo: | 14998 | | | | | |
| Prep Date: | 11/21/2013 | Analysis Date: | 11/22/2013 | SeqNo: | 434093 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.050 | 1.000 | 0 | 99.0 | 80 | 120 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.9 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 117 | 80 | 120 | | | |

| Sample ID | MB-10482 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 10482 | RunNo: | 15061 | | | | | |
| Prep Date: | 11/22/2013 | Analysis Date: | 11/25/2013 | SeqNo: | 434726 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID | LCS-10482 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 10482 | RunNo: | 15061 | | | | | |
| Prep Date: | 11/22/2013 | Analysis Date: | 11/25/2013 | SeqNo: | 434727 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1311953**

RcptNo: **1**

| | | | |
|-------------------|------------------------|------------------------|------------------------|
| Received by/date: | <i>mg</i> | <i>11/21/13</i> | |
| Logged By: | Michelle Garcia | 11/21/2013 9:50:00 AM | <i>Michelle Garcia</i> |
| Completed By: | Michelle Garcia | 11/21/2013 11:12:27 AM | <i>Michelle Garcia</i> |
| Reviewed By: | <i>IO</i> | <i>11/21/2013</i> | |

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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | _____ | | |
| Client Instructions: | _____ | | |

17. Additional remarks:

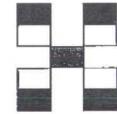
18. Cooler Information

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

Chain-of-Custody Record

Client: **BLAGG ENGINEERING INC.**
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) _____

Turn-Around Time: **By TUESDAY 11-26-2013**
 Standard Rush
 Project Name: **FLORANCE 100**
 Project #: _____
 Project Manager: **J. Blagg**
 Sampler: **J. Blagg**
 On Ice: Yes No
 Sample Temperature: **1.0**



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 + 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, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | CHLORIDE | Air Bubbles (Y or N) |
|----------|------|--------|--------------------------|----------------------|-------------------|---------|----------------------------|------------------------------|-----------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------|----------------------|
| 11/15/13 | 0915 | SOIL | NE WALL 9-pt comp 8'-24' | 4oz x1 | COOL | -001 | X | X | | | | | | | | | | X | |
| " | 1435 | " | GP-I @ 30' | " | " | -002 | X | X | | | | | | | | | | X | |
| " | 1350 | " | GP-I @ 4-pt comp 12'-24' | " | " | -003 | X | X | | | | | | | | | | X | |
| 11/18/13 | 1004 | " | GP-J @ 27'-28' | " | " | -004 | X | X | | | | | | | | | | X | |
| " | 1150 | " | GP-K @ 30'-30.5' | " | " | -005 | X | X | | | | | | | | | | X | |
| " | 1302 | " | GP-L @ 25'-26' | " | " | -006 | X | X | | | | | | | | | | X | |
| " | 1432 | " | GP-M @ 31' | " | " | -007 | X | X | | | | | | | | | | X | |
| " | 1505 | " | GP-N 4pt comp 12'-24' | " | " | -008 | X | X | | | | | | | | | | X | |
| " | 1615 | " | GP-N @ 28' | " | " | -009 | X | X | | | | | | | | | | X | |
| 11/19/13 | 0902 | " | GP-O @ 27' | " | " | -010 | X | X | | | | | | | | | | X | |
| " | 0912 | " | GP-O @ 29' | " | " | -011 | X | X | | | | | | | | | | X | |
| " | 1105 | " | GP-P @ 30' | " | " | -012 | X | X | | | | | | | | | | X | |

Date: 11/20/13 Time: 1104 Relinquished by: **JM Blagg** Received by: **Christina Walter** Date: 11/20/13 Time: 1104
 Date: 11/21/13 Time: 0950 Relinquished by: **Christina Walter** Received by: **Marcus [Signature]** Date: 11/21/13 Time: 0950

Remarks: **Bill BP**
PAYREQ: ZFEIRKOSTJS
CONTACT: J. Peace

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

December 19, 2013

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: Florance 100

OrderNo.: 1312465

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2013 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 1312465

Date Reported: 12/19/2013

CLIENT: Blagg Engineering

Client Sample ID: NE Sidewall 3-pt Comp 8'-24'

Project: Florance 100

Collection Date: 12/5/2013 9:05:00 AM

Lab ID: 1312465-001

Matrix: SOIL

Received Date: 12/11/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 230 | 10 | | mg/Kg | 1 | 12/13/2013 2:00:27 PM | 10750 |
| Surr: DNOP | 89.2 | 66-131 | | %REC | 1 | 12/13/2013 2:00:27 PM | 10750 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 12/12/2013 4:53:53 PM | 10755 |
| Surr: BFB | 98.7 | 74.5-129 | | %REC | 1 | 12/12/2013 4:53:53 PM | 10755 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 12/12/2013 4:53:53 PM | 10755 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 12/12/2013 4:53:53 PM | 10755 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 12/12/2013 4:53:53 PM | 10755 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 12/12/2013 4:53:53 PM | 10755 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %REC | 1 | 12/12/2013 4:53:53 PM | 10755 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 44 | 30 | | mg/Kg | 20 | 12/16/2013 1:28:26 PM | 10813 |

Northeast sidewall
Near Williams
pipeline. Residual
impacts not
recoverable due to
proximity to
pipeline.
GeoProbe Points
M and K indicated
no residual impacts
at groundwater in
this vicinity.

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 for VOA and TOC only. |
| | 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#: 1312465

19-Dec-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10813 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 10813 | RunNo: | 15549 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/16/2013 | SeqNo: | 447221 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------|----------------|------------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10813 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 10813 | RunNo: | 15549 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/16/2013 | SeqNo: | 447222 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.6 | 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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312465

19-Dec-13

Client: Blagg Engineering
Project: Florance 100

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-10750 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10750 | RunNo: | 15473 | | | | | |
| Prep Date: | 12/11/2013 | Analysis Date: | 12/13/2013 | SeqNo: | 445458 | 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 | 8.8 | | 10.00 | | 87.8 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-10750 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10750 | RunNo: | 15473 | | | | | |
| Prep Date: | 12/11/2013 | Analysis Date: | 12/13/2013 | SeqNo: | 445579 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 58 | 10 | 50.00 | 0 | 115 | 62.1 | 127 | | | |
| Surr: DNOP | 5.5 | | 5.000 | | 109 | 66 | 131 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312465
19-Dec-13

Client: Blagg Engineering
Project: Florance 100

| Sample ID: MB-10755 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10755 | RunNo: 15471 | | | | | | | | |
| Prep Date: 12/11/2013 | Analysis Date: 12/12/2013 | SeqNo: 445353 | 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 | 880 | | 1000 | | 88.5 | 74.5 | 129 | | | |

| Sample ID: LCS-10755 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10755 | RunNo: 15471 | | | | | | | | |
| Prep Date: 12/11/2013 | Analysis Date: 12/12/2013 | SeqNo: 445354 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 30 | 5.0 | 25.00 | 0 | 120 | 74.5 | 126 | | | |
| Surr: BFB | 960 | | 1000 | | 95.8 | 74.5 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312465

19-Dec-13

Client: Blagg Engineering

Project: Florance 100

| Sample ID | MB-10755 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 10755 | RunNo: | 15471 | | | | | |
| Prep Date: | 12/11/2013 | Analysis Date: | 12/12/2013 | SeqNo: | 445368 | 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 | | 102 | 80 | 120 | | | |

| Sample ID | LCS-10755 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 10755 | RunNo: | 15471 | | | | | |
| Prep Date: | 12/11/2013 | Analysis Date: | 12/12/2013 | SeqNo: | 445369 | 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 | 110 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 108 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

Qualifiers:

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



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: **1312465**

RcptNo: **1**

Received by/date: *[Signature]* **12/11/13**

Logged By: **Ashley Gallegos** **12/11/2013 10:00:00 AM** *[Signature]*

Completed By: **Ashley Gallegos** **12/11/2013 11:48:07 AM** *[Signature]*

Reviewed By: *[Signature]* **12/11/13**

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 | 1.1 | Good | Yes | | | |



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

December 19, 2013

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Florance 100

OrderNo.: 1312620

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/14/2013 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.

CLIENT: Blagg Engineering

Client Sample ID: West Wall N of Well 5-pt 8'-28'

Project: Florance 100

Collection Date: 12/12/2013 2:25:00 PM

Lab ID: 1312620-001

Matrix: SOIL

Received Date: 12/14/2013 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/17/2013 1:17:32 PM | 10798 |
| Surr: DNOP | 73.3 | 66-131 | | %REC | 1 | 12/17/2013 1:17:32 PM | 10798 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 12/17/2013 1:36:44 PM | 10811 |
| Surr: BFB | 93.0 | 74.5-129 | | %REC | 1 | 12/17/2013 1:36:44 PM | 10811 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 12/17/2013 1:36:44 PM | 10811 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 12/17/2013 1:36:44 PM | 10811 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 12/17/2013 1:36:44 PM | 10811 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 12/17/2013 1:36:44 PM | 10811 |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %REC | 1 | 12/17/2013 1:36:44 PM | 10811 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 43 | 30 | | mg/Kg | 20 | 12/16/2013 2:30:30 PM | 10813 |

West Wall North of PxA marker, 5 point composite from 8'-28 feet.
Sampled to confirm excavation closure

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 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Wall N of Well 5-pt 8'-28'

Project: Florance 100

Collection Date: 12/13/2013 1:16:00 PM

Lab ID: 1312620-002

Matrix: SOIL

Received Date: 12/14/2013 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 12/17/2013 1:40:06 PM | 10798 |
| Surr: DNOP | 84.4 | 66-131 | | %REC | 1 | 12/17/2013 1:40:06 PM | 10798 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 12/17/2013 2:05:27 PM | 10811 |
| Surr: BFB | 93.4 | 74.5-129 | | %REC | 1 | 12/17/2013 2:05:27 PM | 10811 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 12/17/2013 2:05:27 PM | 10811 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 12/17/2013 2:05:27 PM | 10811 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 12/17/2013 2:05:27 PM | 10811 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 12/17/2013 2:05:27 PM | 10811 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 12/17/2013 2:05:27 PM | 10811 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 12/16/2013 2:42:55 PM | 10813 |

Sidewall
immediately North
of PxA marker
sampled to confirm
excavation closure.

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

| | | |
|--------------------|---|---|
| Qualifiers: | <ul style="list-style-type: none"> * 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 | <ul style="list-style-type: none"> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit P Sample pH greater than 2 for VOA and TOC only. RL Reporting Detection Limit |
|--------------------|---|---|

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312620

19-Dec-13

Client: Blagg Engineering

Project: Florance 100

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-10813 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 10813 | RunNo: | 15549 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/16/2013 | SeqNo: | 447221 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-------------------|----------------|-------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-10813 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 10813 | RunNo: | 15549 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/16/2013 | SeqNo: | 447222 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.6 | 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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312620

19-Dec-13

Client: Blagg Engineering
Project: Florance 100

| Sample ID: MB-10798 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|------------------------------|----------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10798 | RunNo: 15536 | | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | SeqNo: 447068 | 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 | 8.4 | | 10.00 | | 84.0 | 66 | 131 | | | |

| Sample ID: LCS-10798 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|------------------------------|----------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10798 | RunNo: 15536 | | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | SeqNo: 447085 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 61 | 10 | 50.00 | 0 | 123 | 62.1 | 127 | | | |
| Surr: DNOP | 5.3 | | 5.000 | | 106 | 66 | 131 | | | |

| Sample ID: MB-10815 | SampType: MBLK | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|------------------------------|----------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10815 | RunNo: 15536 | | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | SeqNo: 448012 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.5 | | 10.00 | | 85.1 | 66 | 131 | | | |

| Sample ID: LCS-10815 | SampType: LCS | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | |
|------------------------------|----------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10815 | RunNo: 15536 | | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | SeqNo: 448013 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 88.5 | 66 | 131 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312620

19-Dec-13

Client: Blagg Engineering
Project: Florance 100

| Sample ID MB-10811 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|----------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 10811 | | RunNo: 15571 | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | | SeqNo: 448155 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 930 | | 1000 | | 93.3 | 74.5 | 129 | | | |

| Sample ID LCS-10811 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|----------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 10811 | | RunNo: 15571 | | | | | | | |
| Prep Date: 12/16/2013 | Analysis Date: 12/17/2013 | | SeqNo: 448156 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 106 | 74.5 | 126 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 74.5 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1312620

19-Dec-13

Client: Blagg Engineering

Project: Florance 100

| Sample ID | MB-10811 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 10811 | RunNo: | 15571 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/17/2013 | SeqNo: | 448181 | 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 | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |

| Sample ID | LCS-10811 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|----------------|-------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 10811 | RunNo: | 15571 | | | | | |
| Prep Date: | 12/16/2013 | Analysis Date: | 12/17/2013 | SeqNo: | 448182 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.98 | 0.050 | 1.000 | 0 | 98.5 | 80 | 120 | | | |
| Toluene | 0.95 | 0.050 | 1.000 | 0 | 94.8 | 80 | 120 | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 97.1 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1312620**

RcptNo: **1**

Received by/date: AF 12/14/13

Logged By: **Anne Thorne** 12/14/2013 10:30:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 12/16/2013 *Anne Thorne*

Reviewed By: KMS 12/16/13

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
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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 | | | |

