

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

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

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: Steve Moskal |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone No.: 505-326-9497 |
| Facility Name: Gutierrez Gas Con B 001 | Facility Type: Natural gas well |
| Surface Owner: Private | Mineral Owner: Federal |
| API No. 3004508808 | |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|--------------|------------------------|---------------------------|------------------------|------------------------|------------------|
| Unit Letter B | Section 4 | Township 29N | Range 09W | Feet from the 1,050 | North/South Line North | Feet from the 1,850 | East/West Line East | County: San Juan |
|------------------|--------------|-----------------|--------------|------------------------|---------------------------|------------------------|------------------------|------------------|

Latitude 36.758165° Longitude -107.782619°

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: condensate | Volume of Release: Unknown | Volume Recovered: none |
| Source of Release: Leaking flow line associated with condensate tank | Date and Hour of Occurrence: Unknown | Date and Hour of Discovery: May 31, 2012 |
| 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. | |

OIL CONS. DIV DIST. 3

| | |
|---|--------------------|
| If a Watercourse was Impacted, Describe Fully.* | NOV 15 2016 |
|---|--------------------|

Describe Cause of Problem and Remedial Action Taken.* Soil impacts derived from a leaking flow line associated with a condensate production tank.. Remedial actions taken include excavation and groundwater monitoring.

Describe Area Affected and Cleanup Action Taken.* Site remediation included excavation and groundwater monitoring to confirm groundwater impacts. Soil samples confirm excavation extents were reached and impacted soils removed from the site. Groundwater monitoring indicates no impacts to groundwater from the condensate release as there are any BTEX impacts. Constituents above closure standards include sulfates, nitrates, iron and TDS which are likely the result of background concentrations common in the San Juan Basin.

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>[Signature]</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Steve Moskal | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Field Environmental Coordinator | Approval Date: <u>2/8/17</u> | Expiration Date: |
| E-mail Address: steven.moskal@bp.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: November 14, 2016 | Phone: 505-326-9497 | <u>Sample MW-1-6</u> |

* Attach Additional Sheets If Necessary

#NCS 1703952493

For Geo Chem / Cation / Anion to Verify Any change / Background. Submit Additional C-141 when completed.



BP America Production Company

200 Energy Court
Farmington, NM 87401
Phone: (505) 326-9200

November 14, 2016

Mr. Cory Smith
Environmental Specialist
NMOCD District III Office
1000 Rio Brazos Road Aztec, NM

**Re: Request for Permanent Closure
Gutierrez Gas Con B 001**

API No. 30-045-08808; Unit letter B, Section 04, T29N, R09W; GPS: 36.758165°, -107.782619°

Dear Mr. Smith:

BP America Production Company has retained Blagg Engineering, Inc. to conduct environmental monitoring of groundwater at the Gutierrez Gas Con B 001. The site is located on private property.

Impacts were discovered in May of 2012 with a follow up excavation in August 2012. Groundwater impacts were suspected during the excavation activities. Six groundwater monitoring wells were installed in August of 2013 to determine groundwater impacts. The groundwater was sampled had elevated sulfate, iron and total dissolved solids. Produced water from an adjacent well, Jaquez Gas Com B 003E, drilled into the same formation was sampled for comparison. The results of the comparison sample demonstrated that the elevated sample results are likely derived from background concentrations.

The attached report requesting site closure demonstrates groundwater contaminants are elevated throughout the site and are consistent with background concentrations.

If you have any questions concerning this document, please contact either John Ritchie (john.ritchie@bp.com) or myself (steven.moskal@bp.com) at the address or phone number listed above. Thank you for your cooperation and assistance.

Sincerely,

Steve Moskal
Field Environmental Coordinator



BP America Production Company

200 Energy Court
Farmington, NM 87401
Phone: (505) 326-9200

November 14, 2016

Mr. Cory Smith
Environmental Specialist
NMOCD District III Office
1000 Rio Brazos Road Aztec, NM

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The attached report requesting site closure demonstrates groundwater contaminants are elevated throughout the site and are consistent with background concentrations.

If you have any questions concerning this document, please contact either John Ritchie (john.ritchie@bp.com) or myself (steven.moskal@bp.com) at the address or phone number listed above. Thank you for your cooperation and assistance.

Sincerely,

Steve Moskal
Field Environmental Coordinator

BP AMERICA PRODUCTION CO.

REMEDIATION REPORT

**GUTIERREZ GC B 001
API #: 300-45-08808
(B) SECTION 4, T29N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
NEW MEXICO OIL CONSERVATION DIVISION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410**

FEBRUARY 2016

**PREPARED BY:
BLAGG ENGINEERING, INC.**

**Consulting Petroleum / Reclamation Services
P.O. Box 87
Bloomfield, New Mexico 87413**

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BP AMERICA PRODUCTION COMPANY

REMEDIATION OF UNIDENTIFIED SOURCE(S)

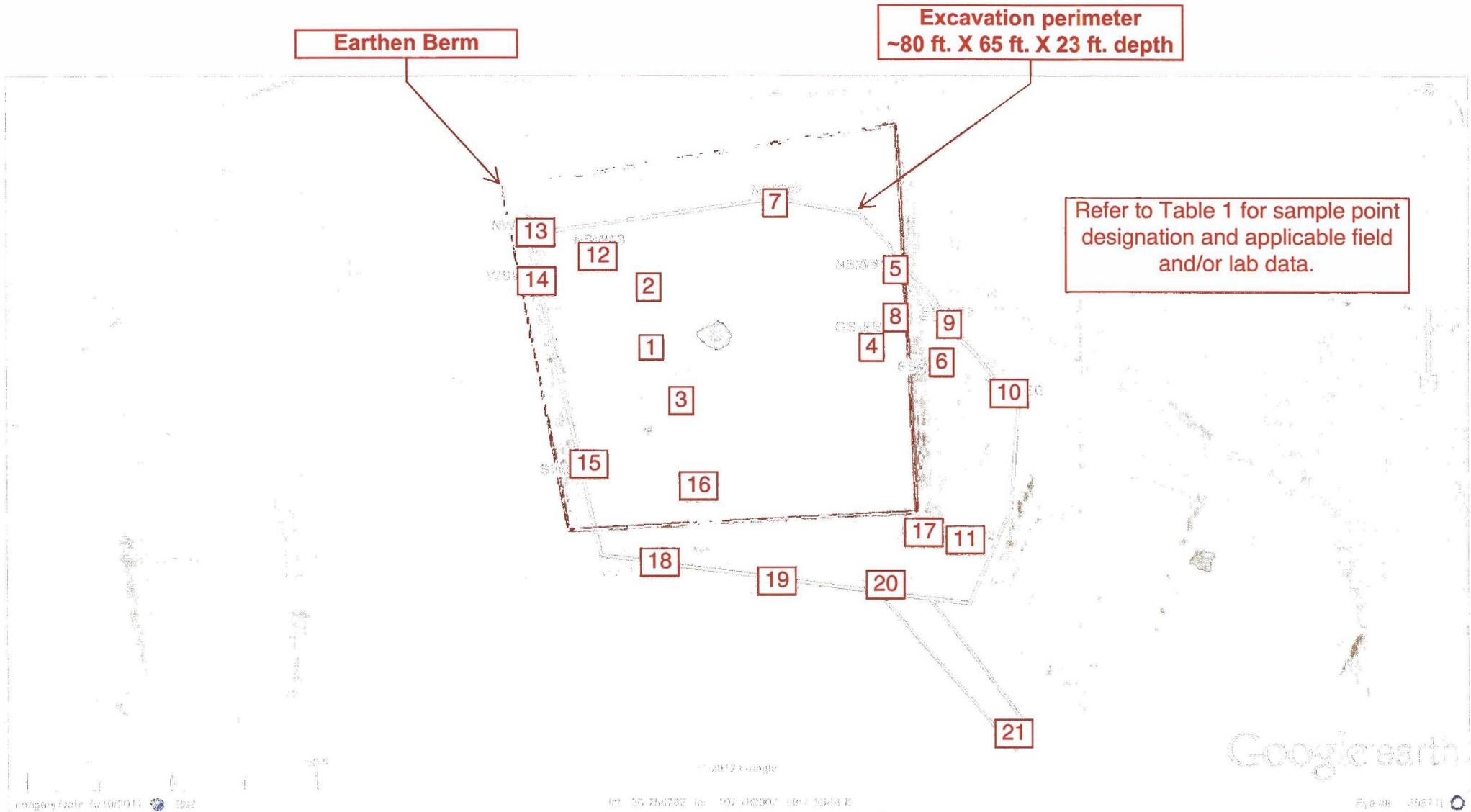
GUTIERREZ GC B # 1

API #: 300408808

Legal Description: (Unit Letter B, Sec. 4, T29N, R9W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. **May 31, 2012:** Impacted soils were discovered during removal of subsurface piping west of two (2) 300 barrel production tanks. Preliminary investigation commenced with the advancement of five (5) test holes (see field report page 1 of 7).
2. **August 2012:** Remediation of impacted soils via excavation initiated and completed (see Aerial Map #1, Figure 1, and field report pages 2 through 7 of 7). Soils sampling were conducted on August 17th and 24th, September 5th, 10th, 17th, 18th, 20th, and 26th. Potential groundwater was observed at approximately twenty-one (21) feet (ft.) below grade (b.g.).
3. **August 2013:** Six (6) groundwater monitor wells were installed on August 2nd, 5th, and 6th (see Aerial Map #2, Figure 1, and attached Boring Logs). Water level gauging and initial development on the monitor wells were completed on August 12th. Groundwater levels below grade were measured between 17.5 and 22.7 ft. b.g. Monitor well casing tops were surveyed on August 13th. Monitor well sampling for laboratory analytical testing was completed on August 15th.
4. **January 20, 2016:** Completed sampling of produced water from nearby Jaquez Gas Com B 003E well site (API #: 3004524217; Legals: Unit Letter D, Sec. 4, T29N, R9W) for anion/cation balance per US EPA Method 300.1 (total dissolved solids and sulfate).
5. **February 2, 2016:** BP received final laboratory analytical report.



**BP - Gutierrez GC B #1 - Historical Release of Unidentified Origin
Unit letter B, Section 4, T29N, R9W**

**Well head: 36.758165, -107.782619
Imagery Date: 06/10/2011**

BP - Gutierrez GC B 001

Unit Letter B, Sec. 4, T29N, R9W
API #: 3004508808

Imagery Date: 03/15/2015

AERIAL MAP #2

Refer to Table 2 for
groundwater monitor well
(MW) field and lab data.

MW #1

MW #2

MW #3

MW #4

MW #5

MW #6

#1
well head

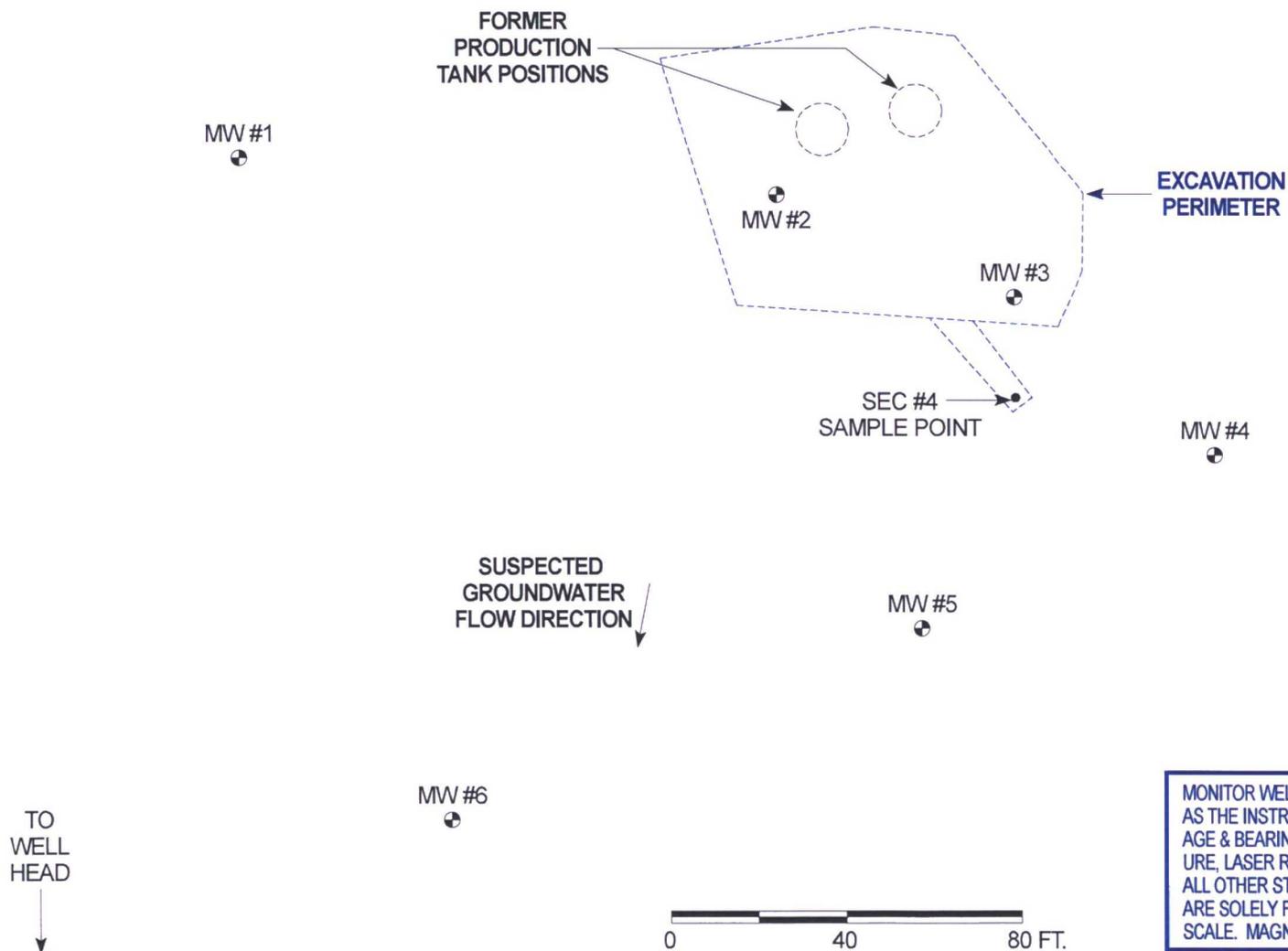
B #1
well head

Google Earth

200 ft



FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

BP AMERICA PRODUCTION COMPANY
GUTIERREZ GC B# 1
NW/4 NE/4 SEC. 4, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: MW INSTALLATIONS
DRAWN BY: NJV
FILENAME: GUTIERREZ GC B 1 MW-SM.SKf
DRAFTED: 12-18-2015

**SITE
MAP**
08/13

BP AMERICA PRODUCTION COMPANY

TABLE 1

Gutierrez GC B #1

Unit Letter B, Section 4, T29N, R9W - API Number: 30-045-08808

Cleanup of Historical Release of Unidentified Origin

| SAMPLE ID & MAP NUMBER | SAMPLE DATE | SAMPLE TIME | SAMPLING COLLECTION | FIELD OVM READING (ppm) | TPH - cumulative (ppm) | Benzene (ppm) | BTEX - cumulative (ppm) | Comments | |
|---|-------------|-------------|---------------------|-------------------------|------------------------|---------------|-------------------------|----------|---|
| TH1 @ 10' | 1 | 05/31/12 | 0855 | GRAB | 1,809 | 2,160 | ND | 84.1 | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| TH2 @ 9' | 2 | 05/31/12 | 0933 | GRAB | 0.0 | ND | ND | ND | |
| TH3 @ 10' | 3 | 05/31/12 | 0950 | GRAB | 796 | 2,200 | ND | 4.88 | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| TH5 @ 10' | 4 | 05/31/12 | 1016 | GRAB | 0.0 | ND | ND | ND | |
| GS-NSW#1 @ 19' | 5 | 08/17/12 | 1017 | GRAB | 0.0 | ND | ND | ND | |
| GS-ESW @ 15' | 6 | 08/17/12 | 1014 | GRAB | 0.0 | - | - | - | |
| GS-NSW#2 @ 20' | 7 | 08/17/12 | 1022 | GRAB | 0.0 | ND | ND | ND | |
| GS-NSW#2 @ 7' | | 08/17/12 | 1052 | GRAB | 0.0 | - | - | - | |
| GS-PB#1 @ 21' | 8 | 08/21/12 | 0826 | GRAB | 207 | - | - | - | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| GS-PB#1 @ 23' | | 08/21/12 | 0846 | GRAB | 0.0 | ND | ND | ND | |
| GS-ESW#1 @ 16' | 9 | 08/24/12 | 1200 | GRAB | 0.0 | ND | - | - | |
| SEC @ 21' | 10 | 09/05/12 | 1543 | GRAB | 234 | - | - | - | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| SEC#2 @ 21' | 11 | 09/10/12 | 0936 | GRAB | 182 | - | - | - | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| SEC#2 @ 23' | | 09/10/12 | 0950 | GRAB | 12.1 | - | - | - | |
| NSW#3 @ 21' | 12 | 09/10/12 | 1008 | GRAB | 0.0 | - | - | - | |
| NWC @ 20' | 13 | 09/17/12 | 0925 | GRAB | 25.2 | ND | ND | ND | |
| WSW @ 22' | 14 | 09/17/12 | 0930 | GRAB | 20.2 | ND | ND | ND | |
| SWC @ 21' | 15 | 09/17/12 | 0938 | GRAB | 100.0 | 44 | ND | 0.19 | |
| SSW @ 19' | 16 | 09/17/12 | 0945 | GRAB | 256 | 5,900 | ND | 369 | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| SEC#3 @ 21' | 17 | 09/20/12 | 1044 | GRAB | 225 | ND | ND | ND | |
| SSW#2 @ 23' | 18 | 09/20/12 | 0925 | GRAB | 35.6 | ND | ND | ND | |
| SSW#3 @ 20' | 19 | 09/20/12 | 0939 | GRAB | 0.0 | ND | ND | ND | |
| SSW#4 @ 20' | 20 | 09/20/12 | 0943 | GRAB | 217.4 | 510 | ND | 1.70 | Soils eventually excavated and transported to BP's Crouch Mesa Facility |
| SEC#4 @ 20' | 21 | 09/26/12 | 1114 | GRAB | 0.0 | - | - | - | |
| SEC#4 @ 21' | | 09/26/12 | 1115 | GRAB | 0.0 | ND | ND | ND | |
| NMOCD RELEASE CLOSURE STANDARDS (soils) - | | | | | 100 | 100 | 10 | 50 | |

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).
 TPH - Total petroleum hydrocarbons by US EPA Method 8015B.
 BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

ppm - Parts per million or milligram per kilogram (mg/Kg).
 ND - Not detected at Reporting Limit.
 NMOCD - New Mexico Oil Conservation Division.
 - Not available.

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993.

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA

| DATE | TIME | READING |
|----------|------|---------|
| 05/31/12 | 0924 | 52.2 |
| 08/17/12 | 1043 | 52.4 |
| 08/21/12 | 0836 | 53.1 |

| DATE | TIME | READING |
|----------|------|---------|
| 09/05/12 | 1345 | 54.0 |
| 09/10/12 | 1026 | 53.6 |
| 09/17/12 | 0957 | 53.8 |

| DATE | TIME | READING |
|----------|------|---------|
| 09/20/12 | 0959 | 53.4 |
| 09/26/12 | 1135 | 52.6 |

BP AMERICA PRODUCTION COMPANY

Gutierrez GC B #1

Unit Letter B, Section 4, T29N, R9W - API Number: 30-045-08808

Field & Laboratory Data from Groundwater Monitor Wells & Produced Water from Jaquez GC B 003E

| SAMPLE ID | FIELD PARAMETERS | | | | | | | |
|-----------------------|------------------|-------------|-----------------------|------------------------|------|-------------------------|------------------------|-------------------------|
| | SAMPLE DATE | SAMPLE TIME | DEPTH TO WATER (feet) | TOTAL MW LENGTH (feet) | pH | Conductivity (µmhos/cm) | Temperature (°Celcius) | Volume Purged (gallons) |
| MW # 1 | 08/15/13 | 1315 | 25.22 | 36.61 | 7.42 | 1,500 | 17.4 | 5.50 |
| MW # 2 | 08/15/13 | 1530 | 22.03 | 31.52 | 7.16 | 1,900 | 17.8 | 4.75 |
| MW # 3 | 08/15/13 | 1445 | 21.38 | 31.50 | 7.28 | 1,800 | 17.7 | 5.00 |
| MW # 4 | 08/15/13 | 1400 | 20.41 | 30.50 | 7.48 | 2,000 | 17.4 | 5.00 |
| MW # 5 | 08/15/13 | 1140 | 20.01 | 31.28 | 7.29 | 1,200 | 17.4 | 5.50 |
| MW # 6 | 08/15/13 | 1225 | 20.96 | 31.09 | 7.32 | 1,500 | 17.8 | 5.00 |
| LP AGT Produced Water | 01/20/16 | 1210 | NA | NA | NA | NA | NA | NA |

NMWQCC STANDARDS - 6 - 9

| SAMPLE ID | LABORATORY PARAMETERS | | | | | | | | | |
|-----------------------|-----------------------|-----------------|----------------|-----------------------------|-------------|------------|----------------|----------------|------------------------|----------------------|
| | Fluoride (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Nitrate-Nitrite as N (mg/L) | Iron (mg/L) | TDS (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl - benzene (µg/L) | Total Xylenes (µg/L) |
| MW # 1 | 0.85 | 18 | 1,700 | ND | 1.8 | 2,840 | ND | ND | ND | ND |
| MW # 2 | 1.00 | 41 | 2,700 | 0.44 | 0.54 | 4,810 | ND | ND | ND | ND |
| MW # 3 | 1.0 | 47 | 2,300 | ND | 13 | 4,330 | ND | ND | ND | ND |
| MW # 4 | 0.93 | 92 | 2,900 | 0.25 | 8.1 | 5,050 | ND | ND | ND | ND |
| MW # 5 | 0.53 | 12 | 1,300 | ND | 1.4 | 2,420 | ND | ND | ND | ND |
| MW # 6 | 0.88 | 18 | 1,800 | ND | 0.85 | 3,460 | ND | ND | ND | ND |
| LP AGT Produced Water | NA | NA | 1.2 | NA | NA | 140 | NA | NA | NA | NA |
| NMWQCC STANDARDS - | 1.6 | 250 | 600 | 10 | 1.0 | 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
 NA - Not Available or Applicable
 ND - Not detected at Reporting Limit
 NMWQCC - New Mexico Water Quality Control Commission

BLAGG ENGINEERING, INC.

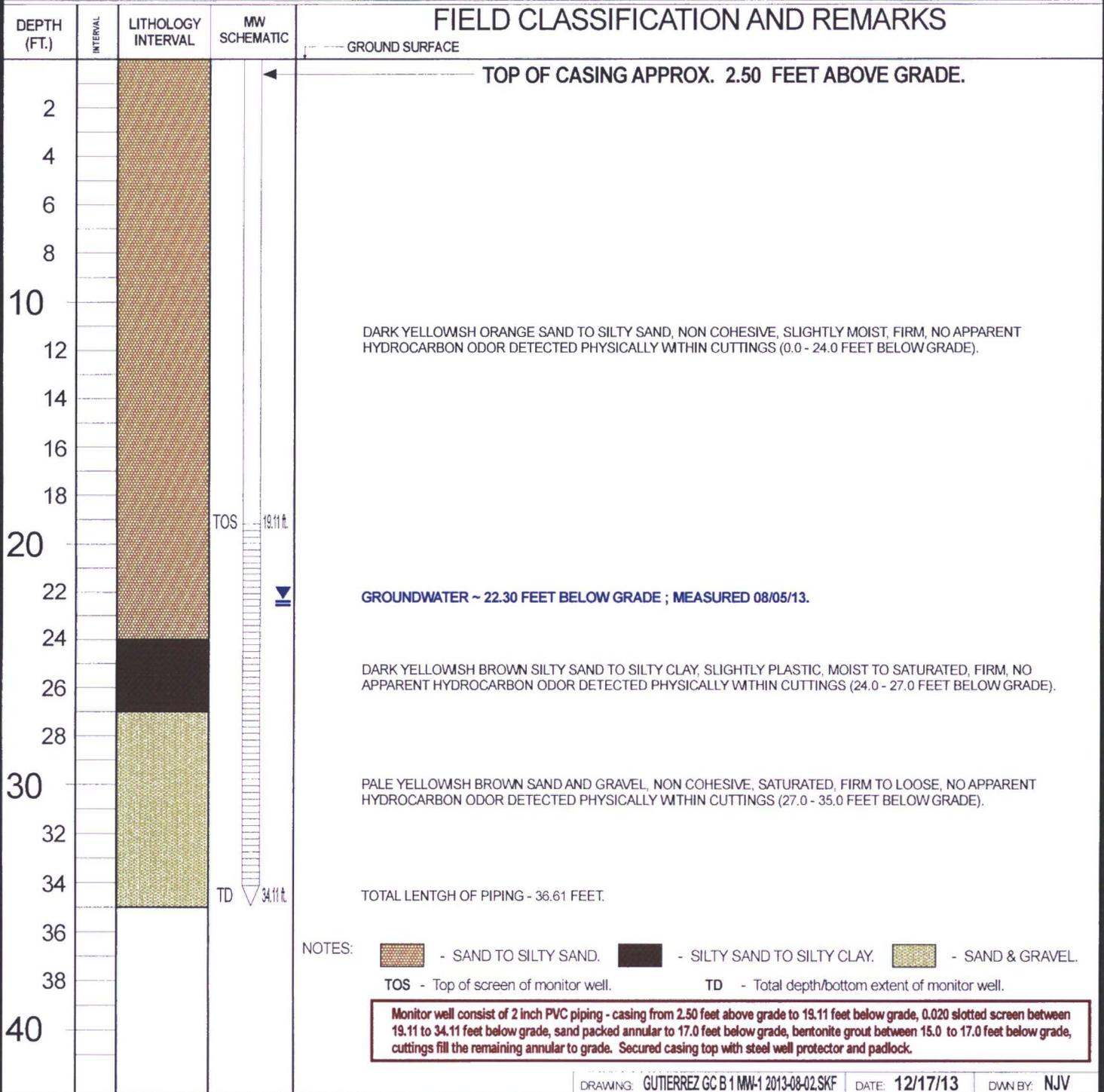
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 1

BORE / TEST HOLE REPORT

BORING #..... BH-1
MW#..... 1
PAGE #..... 1
DATE STARTED 08/02/13
DATE FINISHED 08/02/13
OPERATOR..... KP
LOGGED BY..... NJV

CLIENT: **BP AMERICA PRODUCTION CO.**
LOCATION NAME: **GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER**
BORING LOCATION: **239.5 FEET, N 11 E FROM WELL HEAD.**



BLAGG ENGINEERING, INC.

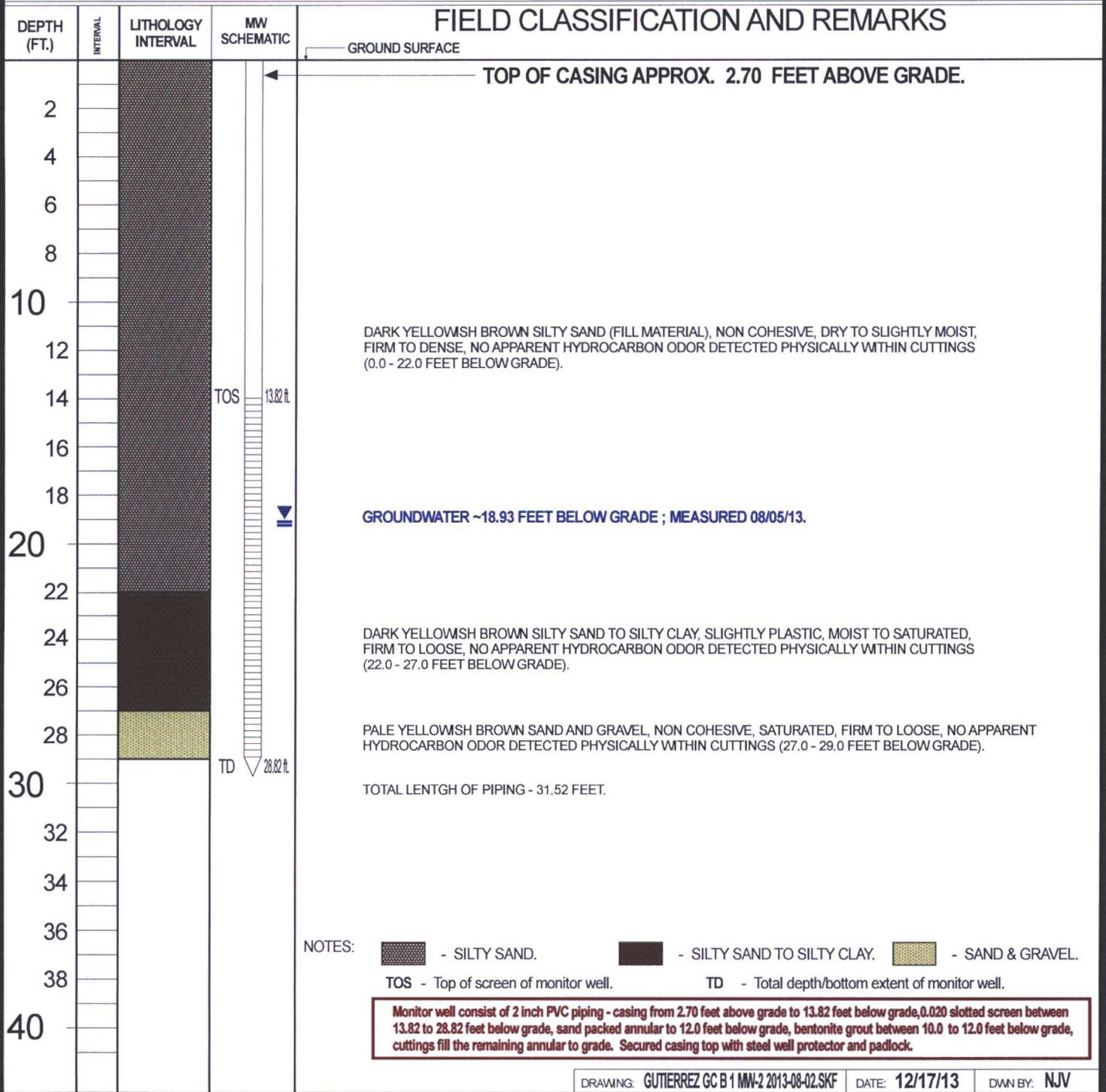
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 2

BORE / TEST HOLE REPORT

BORING #..... BH - 2
MW #..... 2
PAGE #..... 2
DATE STARTED 08/02/13
DATE FINISHED 08/02/13
OPERATOR..... KP
LOGGED BY..... NJV

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER
BORING LOCATION: 282 FEET, N36.5E FROM WELL HEAD.



NOTES: - SILTY SAND. - SILTY SAND TO SILTY CLAY. - SAND & GRAVEL.
TOS - Top of screen of monitor well. TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.70 feet above grade to 13.82 feet below grade, 0.020 slotted screen between 13.82 to 28.82 feet below grade, sand packed annular to 12.0 feet below grade, bentonite grout between 10.0 to 12.0 feet below grade, cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

BLAGG ENGINEERING, INC.

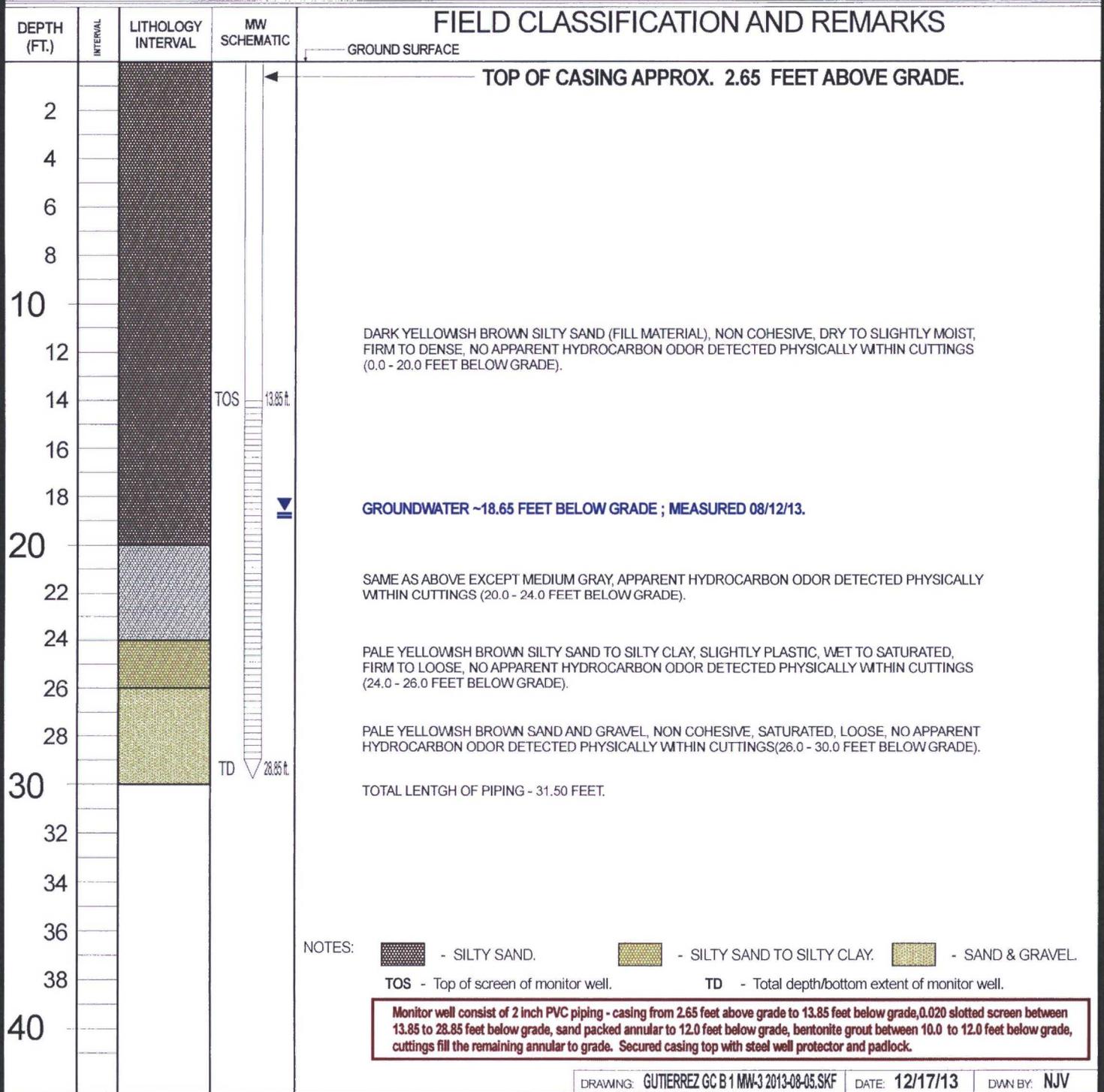
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 3

BORE / TEST HOLE REPORT

BORING #..... BH - 3
MW#..... 3
PAGE #..... 3
DATE STARTED 08/05/13
DATE FINISHED 08/05/13
OPERATOR..... KP
LOGGED BY..... NJV

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER
BORING LOCATION: 301 FEET, N47.5E FROM WELL HEAD.



BLAGG ENGINEERING, INC.

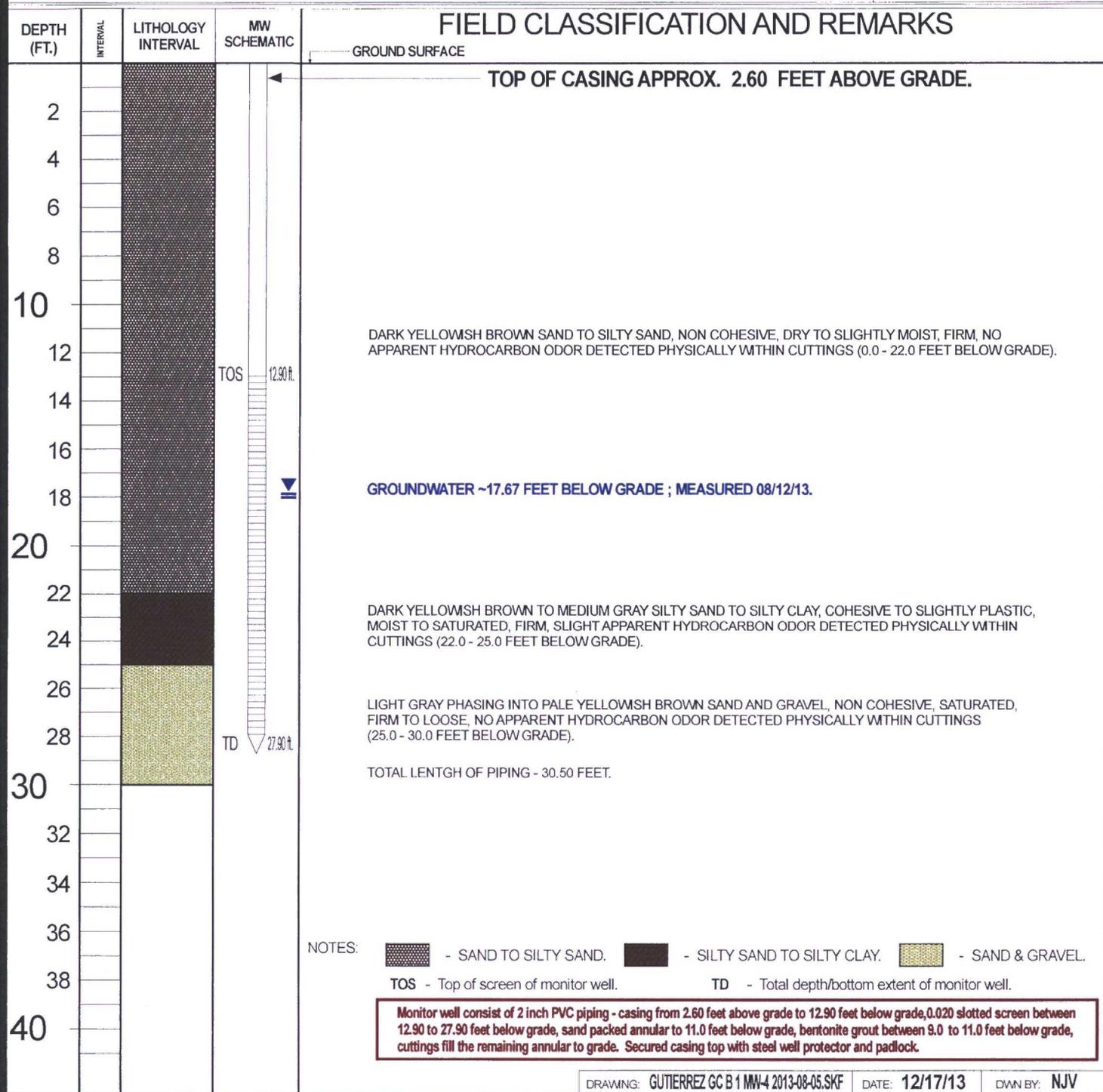
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW # 4

BORE / TEST HOLE REPORT

BORING #..... BH - 4
MW#..... 4
PAGE #..... 4
DATE STARTED 08/05/13
DATE FINISHED 08/05/13
OPERATOR..... KP
LOGGED BY..... NJV

CLIENT: **BP AMERICA PRODUCTION CO.**
LOCATION NAME: **GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER**
BORING LOCATION: **316 FEET, N58E FROM WELL HEAD.**



BLAGG ENGINEERING, INC.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

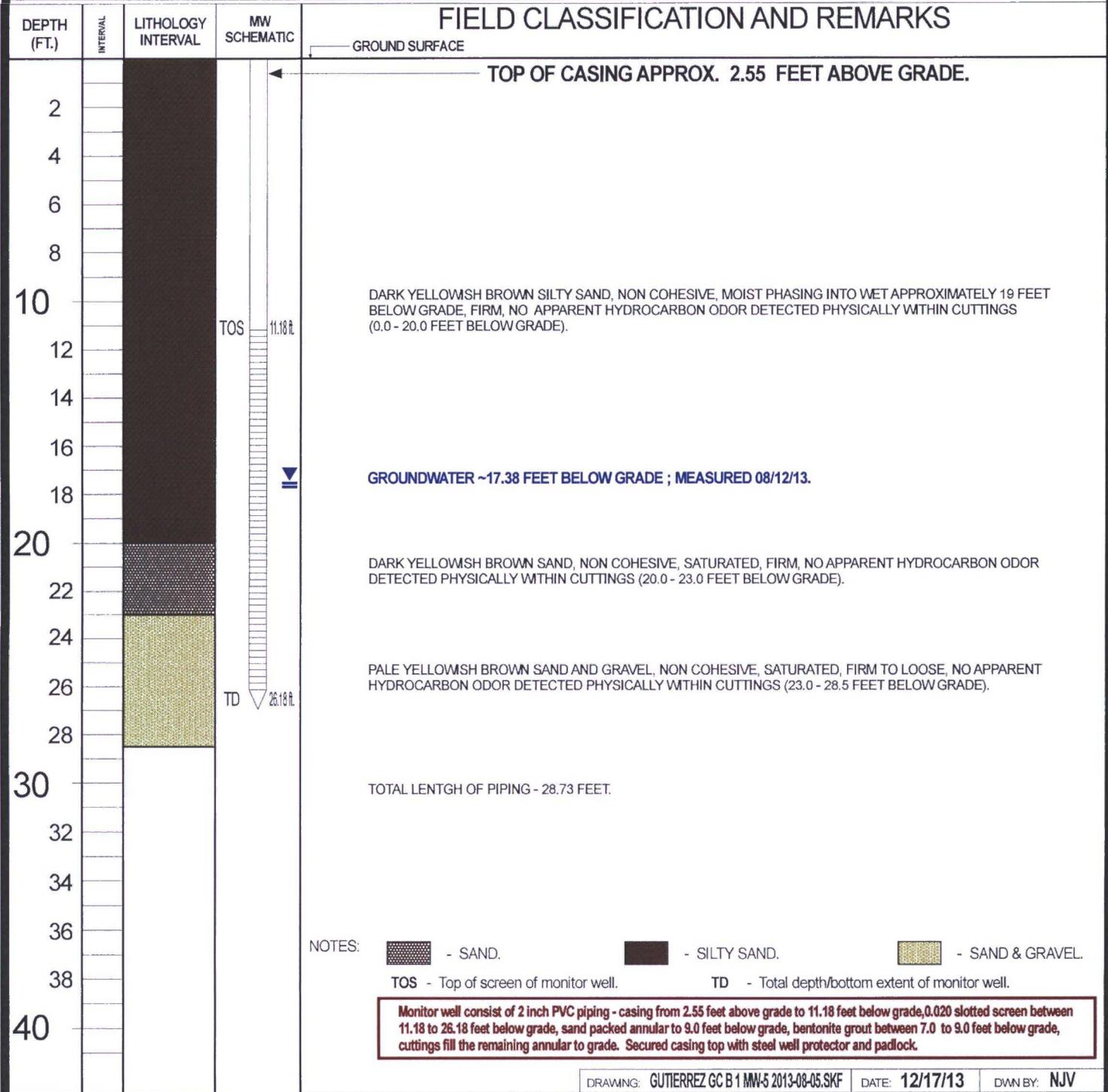
MW#5

BORE / TEST HOLE REPORT

BORING #..... BH - 5
MW #..... 5
PAGE #..... 5
DATE STARTED 08/05/13
DATE FINISHED 08/05/13
OPERATOR..... KP
LOGGED BY..... JCB

CLIENT: **BP AMERICA PRODUCTION CO.**
LOCATION NAME: **GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER**
BORING LOCATION: **238 FEET, N57.5E FROM WELL HEAD.**

FIELD CLASSIFICATION AND REMARKS



NOTES: - SAND. - SILTY SAND. - SAND & GRAVEL.
TOS - Top of screen of monitor well. TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.55 feet above grade to 11.18 feet below grade, 0.020 slotted screen between 11.18 to 26.18 feet below grade, sand packed annular to 9.0 feet below grade, bentonite grout between 7.0 to 9.0 feet below grade, cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

BLAGG ENGINEERING, INC.

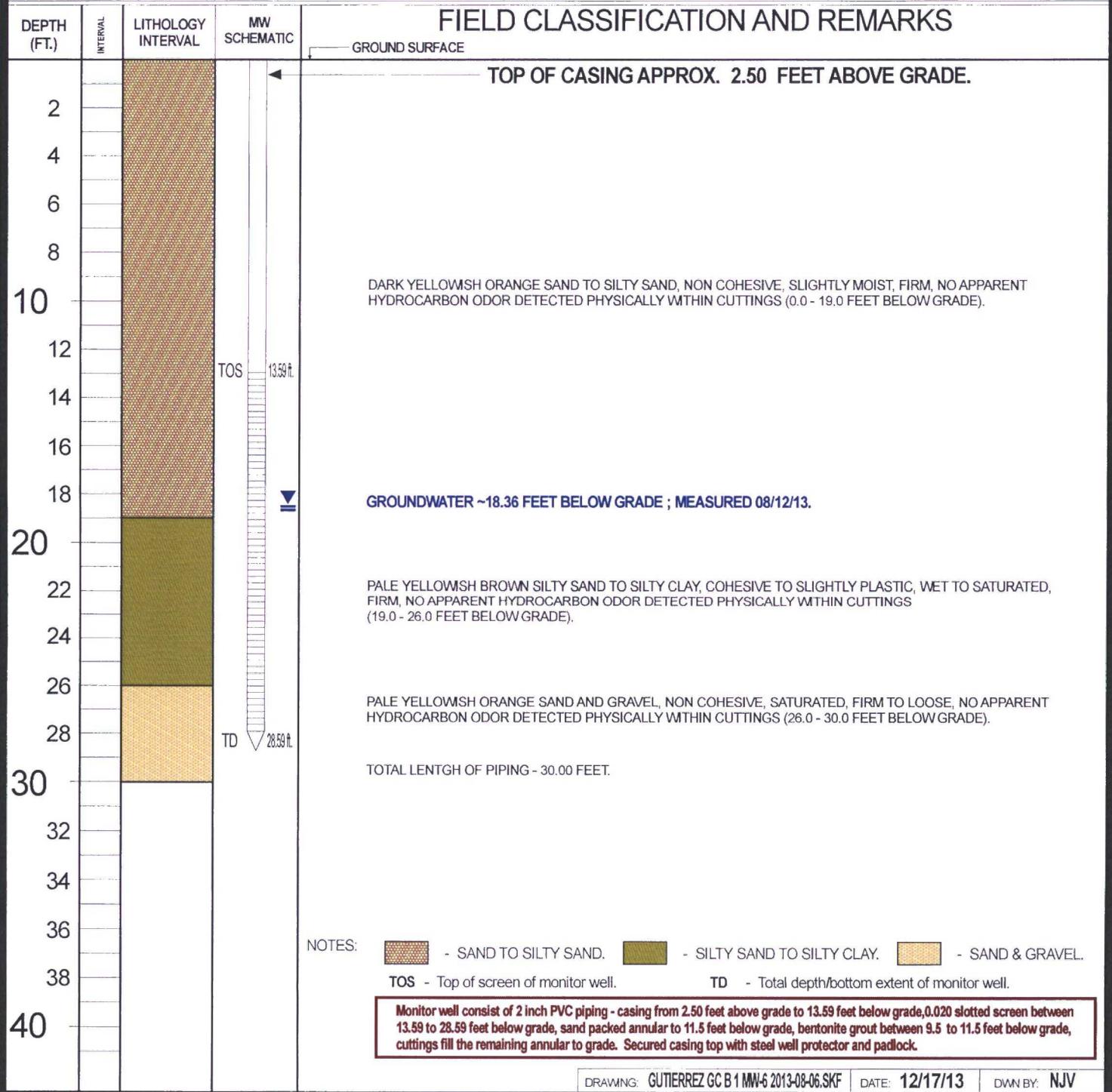
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #6

BORE / TEST HOLE REPORT

BORING #..... BH - 6
MW#..... 6
PAGE #..... 6
DATE STARTED 08/06/13
DATE FINISHED 08/06/13
OPERATOR..... KP
LOGGED BY..... NJV

CLIENT: **BP AMERICA PRODUCTION CO.**
LOCATION NAME: **GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W**
CONTRACTOR: **BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER**
BORING LOCATION: **126 FEET, N48E FROM WELL HEAD.**



BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

| |
|---|
| GUTIERREZ GC B # 1 UNIT B, SEC. 4, T29N, R9W |
|---|

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : August 15, 2013

DEVELOPER / SAMPLER : N J V

Filename : Gutierrez GC B 1 mw log 08-15-13.xls

PROJECT MANAGER : N J V

| WELL # | WELL ELEV. (ft) | WATER ELEV. (ft) | DEPTH TO WATER (ft) | TOTAL DEPTH (ft) | SAMPLING TIME | pH | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED (gal.) |
|--------|-----------------|------------------|---------------------|------------------|---------------|------|-----------------|-----------------|----------------------|
| 1 | 105.50 | 80.28 | 25.22 | 36.61 | 1315 | 7.42 | 1,500 | 17.4 | 5.50 |
| 2 | 102.21 | 80.18 | 22.03 | 31.52 | 1530 | 7.16 | 1,900 | 17.8 | 4.75 |
| 3 | 101.54 | 80.16 | 21.38 | 31.50 | 1445 | 7.28 | 1,800 | 17.7 | 5.00 |
| 4 | 100.46 | 80.05 | 20.41 | 30.50 | 1400 | 7.48 | 2,000 | 17.4 | 5.00 |
| 5 | 100.05 | 80.04 | 20.01 | 31.28 | 1140 | 7.29 | 1,200 | 17.4 | 5.50 |
| 6 | 100.95 | 79.99 | 20.96 | 31.09 | 1225 | 7.32 | 1,500 | 17.8 | 5.00 |

INSTRUMENT CALIBRATIONS =
DATE & TIME =

| | |
|----------------|-------|
| 4.017.00/10.00 | 2,800 |
| 08/15/13 | 0630 |

NOTES : Volume of water purged from well prior to sampling; V = pi X r² X h X 7.48 gal./ft³ X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

Monitor wells installed 08/02 to 08/06, 2013. Gauging & development completed on 08/12/13. Well top survey on 08/13/13.
Excellent recovery in all monitor wells. No physical indication of hydrocarbons within purged water observed prior to
sample collection. Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass
adjustable flow valve attachment added near sampling end of tubing. Collected samples from all MW's for BTEX per
US EPA Method 8021B & general chemistry parameters.

Top of casing MW # 1 ~ 2.50 ft. , MW # 2 ~ 2.70 ft. , MW # 3 ~ 2.65 ft. , MW # 4 ~ 2.60 ft. , MW # 5 ~ 2.55 ft. ,
MW # 6 ~ 2.50 ft. below grade .

| | | | |
|------------|----------|---------|---------|
| on-site | 11:00 AM | temp | 79 F |
| off-site | 3:00 PM | temp | 93 F |
| sky cond. | Sunny | | |
| wind speed | 0 - 10 | direct. | E - WNW |

| | | |
|-------------------|---|---|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004508808 TANK ID (if applicable): A |
|-------------------|---|---|

FIELD REPORT:

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

PAGE #: **1** of **6**

| | | | |
|--|---------------|---|--|
| SITE INFORMATION: | | SITE NAME: GUTIERREZ GC B # 1 | |
| QUAD/UNIT: B | SEC: 4 | TWP: 29N | RNG: 9W PM: NM CNTY: SJ ST: NM |
| 1/4 -1/4/FOOTAGE: 1,050'N / 1,846'E | | NW/NE LEASE TYPE: FEDERAL / STATE / <input checked="" type="checkbox"/> FEE / INDIAN | |
| LEASE #: | - | PROD. FORMATION: DK | CONTRACTOR: ELKHORN MBF - J.SHAHAN |

| |
|---|
| DATE STARTED: 05/31/12 |
| DATE FINISHED: |
| ENVIRONMENTAL SPECIALIST(S): NJV |

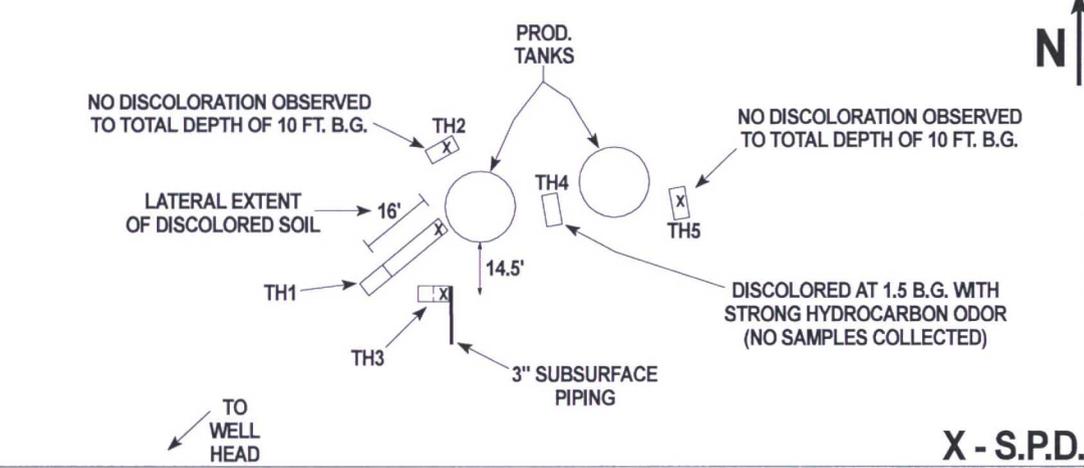
| | | |
|-------------------------------------|--|---|
| REFERENCE POINT: | WELL HEAD (W.H.) GPS COORD.: 36.758165 X 107.782619 | GL ELEV.: 5,626' |
| 1) Gutierrez GC #1 well head | GPS COORD.: 36.75834 X 107.78197 | DISTANCE/BEARING FROM W.H.: |
| 2) Western Production Tank | GPS COORD.: 36.758835 X 107.782027 | DISTANCE/BEARING FROM W.H.: 173.5', N5W (from #1 well head) |
| 3) _____ | GPS COORD.: | DISTANCE/BEARING FROM W.H.: |
| 4) _____ | GPS COORD.: | DISTANCE/BEARING FROM W.H.: |

| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: | HALL | OVM READING (ppm) |
|--------------------------------|---|--|-------------------|
| 1) SAMPLE ID: TH1 @ 10' | SAMPLE DATE: 05/31/12 | SAMPLE TIME: 0855 LAB ANALYSIS: 8015B/8021B/300.0 (CI) | 1,809 |
| 2) SAMPLE ID: TH2 @ 9' | SAMPLE DATE: 05/31/12 | SAMPLE TIME: 0933 LAB ANALYSIS: 8015B/8021B/300.0 (CI) | 0.0 |
| 3) SAMPLE ID: TH3 @ 10' | SAMPLE DATE: 05/31/12 | SAMPLE TIME: 0950 LAB ANALYSIS: 8015B/8021B/300.0 (CI) | 796 |
| 4) SAMPLE ID: TH5 @ 10' | SAMPLE DATE: 05/31/12 | SAMPLE TIME: 1016 LAB ANALYSIS: 8015B/8021B/300.0 (CI) | 0.0 |

| | |
|--|---|
| SOIL DESCRIPTION: | SOIL TYPE: <input checked="" type="checkbox"/> SAND / <input checked="" type="checkbox"/> SILTY SAND / <input type="checkbox"/> SILT / <input type="checkbox"/> SILTY CLAY / <input type="checkbox"/> CLAY / <input type="checkbox"/> GRAVEL / <input type="checkbox"/> OTHER |
| SOIL COLOR: MODERATE BROWN TO BLACK | PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC |
| COHESION (ALL OTHERS): <input checked="" type="checkbox"/> NON COHESIVE / <input type="checkbox"/> SLIGHTLY COHESIVE / <input type="checkbox"/> COHESIVE / <input type="checkbox"/> HIGHLY COHESIVE | DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD |
| CONSISTENCY (NON COHESIVE SOILS): <input type="checkbox"/> LOOSE / <input checked="" type="checkbox"/> FIRM / <input type="checkbox"/> DENSE / <input type="checkbox"/> VERY DENSE | HC ODOR DETECTED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION - STRONG WITHIN DISCOLORED SOILS ONLY. |
| MOISTURE: DRY / <input checked="" type="checkbox"/> SLIGHTLY MOIST / <input type="checkbox"/> MOIST / <input type="checkbox"/> WET / <input type="checkbox"/> SATURATED / <input type="checkbox"/> SUPER SATURATED | DISCOLORATION/STAINING OBSERVED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION - MEDIUM GRAY TO BLACK - TH1 between 4 - 10 ft. below grade (b.g.), west half of TH3 between 5 - 8 ft. b.g., TH4 between 1.5 - 6 ft. b.g., OLIVE GRAY - east half of TH3 approximately 9 - 10 ft. b.g. (with apparent hydrocarbon odor detected). |
| SAMPLE TYPE: <input checked="" type="checkbox"/> GRAB / <input type="checkbox"/> COMPOSITE - # OF PTS. NA | ANY AREAS DISPLAYING WETNESS: YES / <input checked="" type="checkbox"/> NO EXPLANATION - |
| APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION: APPEARS HISTORICAL | ADDITIONAL COMMENTS: TH1 @ 4.5' OVM = 1,110 ppm, DISTANCE FROM SOUTHERN BERM TO IRRIGATION DITCH APPROXIMATELY 220 FT., DEPTH TO GROUNDWATER CURRENTLY UNKNOWN, BUT ESTIMATED BETWEEN 18 TO 30 FT. B.G. |
| SOIL IMPACT DIMENSION ESTIMATION: ? ft. X ? ft. X ? ft. | EXCAVATION ESTIMATION (Cubic Yards): ? |
| DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: <1,000' NEAREST SURFACE WATER: <1,000' NMOC D TPH CLOSURE STD: 100 ppm | |

SITE SKETCH

| | |
|-----------------------------------|---|
| PLOT PLAN circle: attached | OVM CALIB. READ. = 52.2 ppm RF = 0.52 |
| | OVM CALIB. GAS = 100 ppm |
| | TIME: 9:24 am/pm DATE: 05/31/12 |



| | |
|-------------------------------------|--|
| MISCELL. NOTES | |
| WO: N1410278 | |
| PO #: 75977 | |
| PK: ZSCHWLLBGT | |
| PJ #: Z2-000690-C | |
| Permit date(s): NA | |
| OCD Appr. date(s): NA | |
| Tank ID | |
| BGT Sidewalls Visible: Y / N | |
| BGT Sidewalls Visible: Y / N | |
| BGT Sidewalls Visible: Y / N | |
| Magnetic declination: 10° E | |

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

| | |
|---|-------------------------|
| NOTES: GOOGLE EARTH IMAGERY DATE: 06/10/2011 | ONSITE: 05/31/12 |
|---|-------------------------|

| | | |
|-------------------|---|--|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004508808 TANK ID (if applicable): NA |
|-------------------|---|--|

FIELD REPORT:

(circle one): BGT CONFIRMATION / **RELEASE INVESTIGATION** / OTHER:
Reclamation of unknown release source near production tanks

PAGE #: **2** of **6**

SITE INFORMATION: SITE NAME: **GUTIERREZ GC B # 1**

QUAD/UNIT: **B** SEC: **4** TWP: **29N** RNG: **9W** PM: **NM** CNTY: **SJ** ST: **NM**

1/4 - 1/4 FOOTAGE: **1700'N / 1650'E** **NW/NE** LEASE TYPE: FEDERAL / STATE / **FEE** / INDIAN

LEASE #: **-** PROD. FORMATION: **DK** CONTRACTOR: **PAUL & SONS MBF - D. DECKER**

DATE STARTED: **08/17/12**

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): **NV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.758165 X 107.782619** GL ELEV.: **5626'**

| |
|--|
| 1) ESW GPS COORD.: 36.758821 X 107.781884 DISTANCE/BEARING FROM WH.: 322', N42E |
| 2) NSW #1 GPS COORD.: 36.758865 X 107.781910 DISTANCE/BEARING FROM WH.: 329', N39E |
| 3) NSW #2 GPS COORD.: 36.758892 X 107.781979 DISTANCE/BEARING FROM WH.: 325', N35.25E |
| 4) ESW #1 GPS COORD.: 36.758836 X 107.781882 DISTANCE/BEARING FROM WH.: 326', N41.5E |

SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL**

| SAMPLE ID | SAMPLE DATE | SAMPLE TIME | LAB ANALYSIS | OVM READING (ppm) |
|--------------------------|-----------------|-------------|-----------------------------------|-------------------|
| 1) GS-NSW#1 @ 19' | 08/17/12 | 1017 | 8015, 8021, 300.0 (Chlor.) | 0.0 |
| 2) GS-NSW#2 @ 20' | 08/17/12 | 1022 | 8015, 8021, 300.0 (Chlor.) | 0.0 |
| 3) GS-PB#1 @ 23' | 08/21/12 | 0846 | 8015, 8021 | 0.0 |
| 4) GS-ESW#1 @ 16' | 08/24/12 | 1200 | 8015 | 0.0 |

SOIL DESCRIPTION: SOIL TYPE: **SAND / SILTY SAND** / SILT / **SILTY CLAY / CLAY** / GRAVEL / OTHER

SOIL COLOR: **MOSTLY DARK YELLOWISH ORANGE TO MODERATE BROWN**

COHESION (ALL OTHERS): **NON COHESIVE** / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / **FIRM** / DENSE / VERY DENSE

MOISTURE: DRY / **SLIGHTLY MOIST** / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: **GRAB** / COMPOSITE - # OF PTS. **NA**

DISCOLORATION/STAINING OBSERVED: **YES** / NO EXPLANATION - **BLACKISH LAYER WITHIN NSW#1 @ 19' (~ 1' THICK IN TRACKHOE BUCKET)**

PLASTICITY (CLAYS): NON PLASTIC / **SLIGHTLY PLASTIC / COHESIVE** / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / **FIRM / STIFF** / VERY STIFF / HARD

HC ODOR DETECTED: YES / **NO** EXPLANATION - **ONLY FROM SAMPLES COLLECTED. UNKNOWN PHYSICAL ODOR WITHIN GS-NSW#1 @ 19' SAMPLE.**

ANY AREAS DISPLAYING WETNESS: **YES** / NO EXPLANATION - **GROUNDWATER OBSERVED @ ~ 21' BELOW GRADE.**

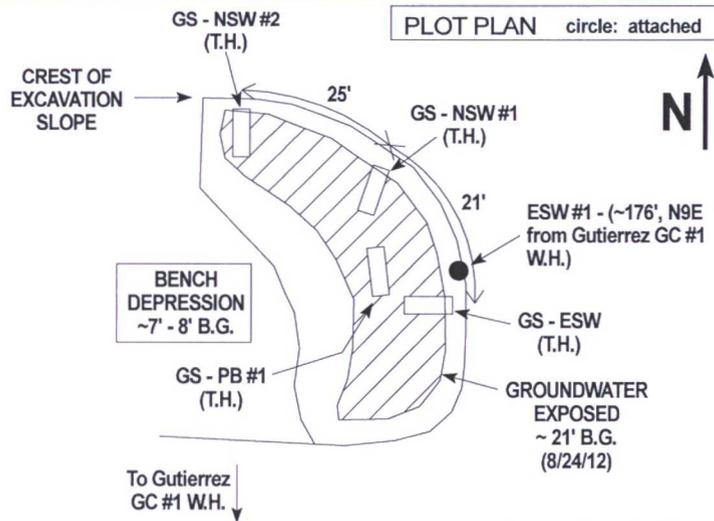
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **YES** / NO EXPLANATION: **PREVIOUSLY DISCOVERED IN MAY 2012 (see initial field report)**

ADDITIONAL COMMENTS: **NSW #2 SAMPLE PT. PHYSICALLY MEASURED AT 194 FT., DUE NORTH OF GUTIERREZ GC # 1 WELL HEAD. IMPACTS APPEAR HISTORICAL IN NATURE AS STATED IN INITIAL MAY 2012 INVESTIGATION. HORIZONTAL BANDED MOISTURE STREAKS OBSERVED BETWEEN 10' - 19' BELOW GRADE EAST SIDEWALL (ESW #1).**

EXCAVATION DIMENSIONS (if applicable): _____ ft. X _____ ft. X _____ ft. cubic yards excavated (if applicable): _____

DEPTH TO GROUNDWATER: **~21'** NEAREST WATER SOURCE: **<1,000'** NEAREST SURFACE WATER: **<200'** NMOCD TPH CLOSURE STD: **100** ppm

SITE SKETCH



| | |
|------------------------------------|-----------------------|
| OVM CALIB. READ. = 52.4 ppm | RF = 0.52 |
| OVM CALIB. GAS = 100 ppm | |
| TIME: 10:43 am | DATE: 08/17/12 |

MISCELL. NOTES

WO: **N15079146**

PO #: **4300066178**

PK:

PJ #:

OCD Appr. date(s): **NA**

| | |
|---------|------------------------------|
| Tank ID | Permit date(s): NA |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |

Magnetic declination: **10° E**

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

TRAVEL NOTES: CALLOUT: _____ ONSITE: **8/15/12, 8/17/12, 8/21/12, 8/22/12, 8/24/12**

FIELD REPORT:

(circle one): BGT CONFIRMATION / **RELEASE INVESTIGATION** / OTHER:
Reclamation of unknown release source near production tanks

PAGE #: **3** of **6**

SITE INFORMATION: SITE NAME: **GUTIERREZ GC B # 1**
QUAD/UNIT: B SEC: 4 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM
1/4 -1/4/FOOTAGE: 1700'N / 1650'E NW/NE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN
LEASE #: - PROD. FORMATION: DK CONTRACTOR: PAUL & SONS MBF - D. DECKER

DATE STARTED: **09/10/12**
DATE FINISHED:
ENVIRONMENTAL SPECIALIST(S): **NV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.758165 X 107.782619** GL ELEV.: **5626'**

| | | | | |
|------------------|-------------|-------------------------------|-----------------------------|-----------------------|
| 1) SEC | GPS COORD.: | 36.758807 X 107.781849 | DISTANCE/BEARING FROM W.H.: | 325', N44E |
| 2) SEC#2 | GPS COORD.: | 36.758743 X 107.781887 | DISTANCE/BEARING FROM W.H.: | 300.5', N45.5E |
| 3) NSW #3 | GPS COORD.: | 36.758878 X 107.782081 | DISTANCE/BEARING FROM W.H.: | 304', N31E |
| 4) | GPS COORD.: | | DISTANCE/BEARING FROM W.H.: | |

SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL**

| SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | OVM READING (ppm) |
|-----------------------|-----------------|--------------|---------------|-------------------|
| 1) SEC@ 21' | 09/05/12 | 1543 | NA | 234 |
| 2) SEC#2 @ 21' | 09/10/12 | 0936 | NA | 182 |
| 3) SEC#2 @ 23' | 09/10/12 | 0950 | NA | 12.1 |
| 4) NSW#3 @ 21' | 09/10/12 | 1008 | NA | 0.0 |

SOIL DESCRIPTION: SOIL TYPE: **SAND** / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: **MOSTLY DARK YELLOWISH ORANGE TO MODERATE BROWN**

COHESION (ALL OTHERS): **NON COHESIVE** / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / **FIRM** / DENSE / VERY DENSE
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
SAMPLE TYPE: **GRAB** / COMPOSITE - # OF PTS. **NA**

DISCOLORATION/STAINING OBSERVED: **YES** / NO EXPLANATION - **MOSTLY BETWEEN 18' - 21' BELOW GRADE IN SE CORNER & FURTHEST WESTERN END OF NORTH SIDEWALL (NSW#3).**

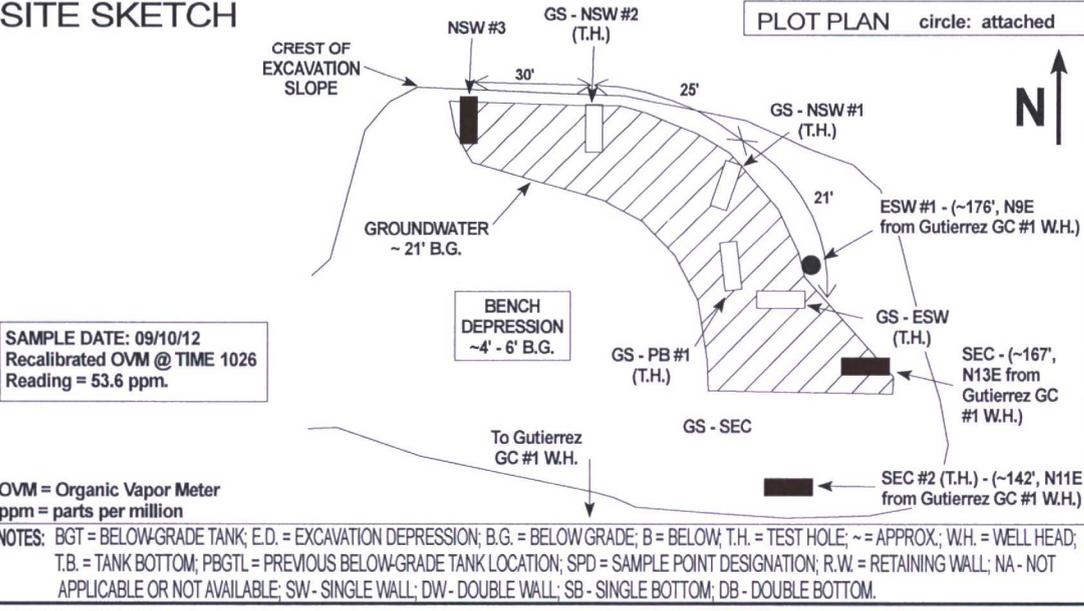
ANY AREAS DISPLAYING WETNESS: **YES** / NO EXPLANATION - **GROUNDWATER OBSERVED @ ~21' BELOW GRADE.**

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **YES** / NO EXPLANATION: **PREVIOUSLY DISCOVERED IN MAY 2012 (see initial field report)**

ADDITIONAL COMMENTS: **CLAY AT 23' BELOW GRADE - OLIVE GRAY [GS-PB] TO MODERATE YELLOWISH BROWN [SEC#2 (T.H.)].**

EXCAVATION DIMENSIONS (if applicable): _____ ft. X _____ ft. X _____ ft. cubic yards excavated (if applicable): _____

DEPTH TO GROUNDWATER: **~21'** NEAREST WATER SOURCE: **<1,000'** NEAREST SURFACE WATER: **<200'** NMOCD TPH CLOSURE STD: **100** ppm



OVM CALIB. READ. = **54.0** ppm RF = 0.52
OVM CALIB. GAS = **100** ppm
TIME: **1:45** am/pm DATE: **09/04/12**

MISCELL. NOTES

WO: **N15079146**
PO #: **4300066178**
PK:
PJ #:
OCD Appr. date(s): **NA**

| | |
|---------|------------------------------|
| Tank ID | Permit date(s): NA |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |

Magnetic declination: **10° E**

TRAVEL NOTES: CALLOUT: _____ ONSITE: **8/15/12, 8/17/12, 8/21/12, 8/22/12, 8/24/12, 8/29/12, 9/5/12, 9/10/12**

| | | |
|-------------------|---|--|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004508808 TANK ID (if applicable): NA |
|-------------------|---|--|

FIELD REPORT:

(circle one): BGT CONFIRMATION / **RELEASE INVESTIGATION** / OTHER:
 Reclamation of unknown release source near production tanks

PAGE #: **4** of **6**

| | |
|--|--------------------------------------|
| SITE INFORMATION: | SITE NAME: GUTIERREZ GC B # 1 |
| QUAD/UNIT: B SEC: 4 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM | |
| 1/4 -1/4 FOOTAGE: 1700'N / 1650'E NW/NE LEASE TYPE: FEDERAL / STATE FEE / INDIAN | |
| LEASE #: - PROD. FORMATION: DK CONTRACTOR: PAUL & SONS MBF - D. DECKER | |

DATE STARTED: **09/17/12**
 DATE FINISHED: _____
 ENVIRONMENTAL SPECIALIST(S): **NV**

| | | |
|------------------|--|---|
| REFERENCE POINT: | WELL HEAD (W.H.) GPS COORD.: 36.758165 X 107.782619 | GL ELEV.: 5626' |
| 1) NWC | GPS COORD.: 36.758881 X 107.782117 | DISTANCE/BEARING FROM W.H.: 300', N29E |
| 2) WSW | GPS COORD.: 36.758858 X 107.782117 | DISTANCE/BEARING FROM W.H.: 292', N30E |
| 3) SWC | GPS COORD.: 36.758773 X 107.782089 | DISTANCE/BEARING FROM W.H.: 271', N35E |
| 4) SSW | GPS COORD.: 36.758765 X 107.782023 | DISTANCE/BEARING FROM W.H.: 280', N38.5E |

| | | | |
|--------------------------------|---|--------------------------|---------------------------------|
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL | | OVM READING (ppm) |
| 1) SAMPLE ID: NWC@ 20' | SAMPLE DATE: 09/17/12 | SAMPLE TIME: 0925 | LAB ANALYSIS: 8015, 8021 |
| 2) SAMPLE ID: WSW @ 22' | SAMPLE DATE: 09/17/12 | SAMPLE TIME: 0930 | LAB ANALYSIS: 8015, 8021 |
| 3) SAMPLE ID: SWC @ 21' | SAMPLE DATE: 09/17/12 | SAMPLE TIME: 0938 | LAB ANALYSIS: 8015, 8021 |
| 4) SAMPLE ID: SSW @ 19' | SAMPLE DATE: 09/17/12 | SAMPLE TIME: 0945 | LAB ANALYSIS: 8015, 8021 |
| | | | 25.2 |
| | | | 20.2 |
| | | | 100.0 |
| | | | 256 |

SOIL DESCRIPTION: SOIL TYPE: SAND SILTY SAND SILT SILTY CLAY CLAY GRAVEL / OTHER _____

SOIL COLOR: **DARK YELLOWISH ORANGE TO BLACK**

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE FIRM / DENSE / VERY DENSE

MOISTURE: DRY SLIGHTLY MOIST / MOIST / WET SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. **NA**

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - **MOSTLY BETWEEN 18' - 21' BELOW GRADE IN SOUTH SIDEWALL & SOUTHWEST CORNER - MEDIUM GRAY TO BLACK (PLAN ON STRIPPING OVERBURDEN TO REMOVE THIS 3' INTERVAL).**

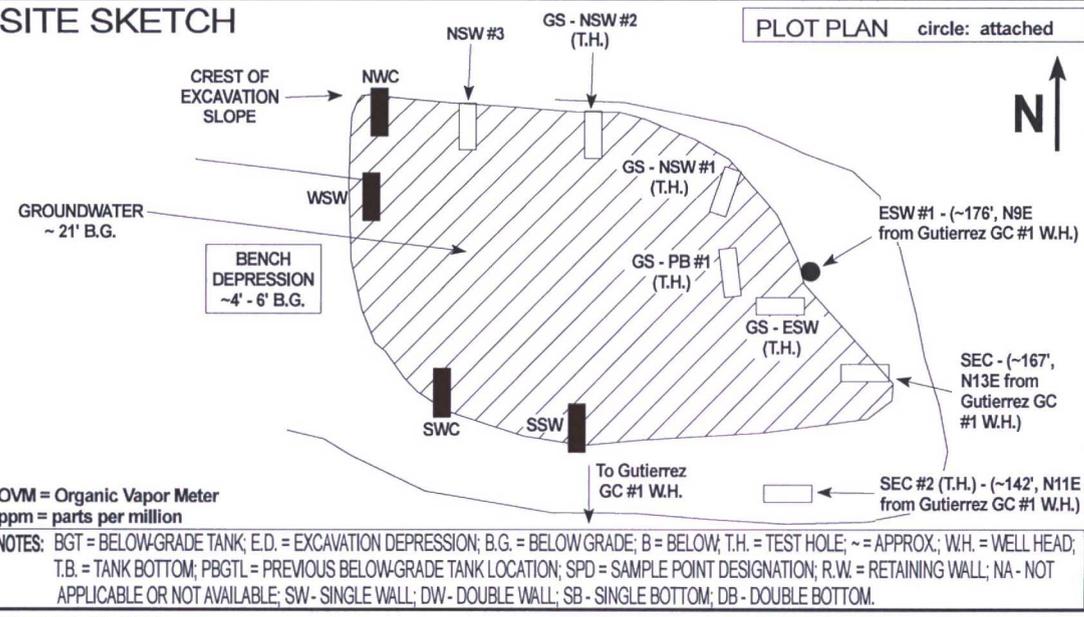
ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION - **GROUNDWATER OBSERVED @ ~ 21' BELOW GRADE.**

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: **PREVIOUSLY DISCOVERED IN MAY 2012 (see initial field report)**

ADDITIONAL COMMENTS: **CLAY AT 21' TO 22' BELOW GRADE AT WEST SIDEWALL (WSW) SAMPLE - OLIVE GRAY.**

EXCAVATION DIMENSIONS (if applicable): _____ ft. X _____ ft. X _____ ft. cubic yards excavated (if applicable): _____

DEPTH TO GROUNDWATER: **~21'** NEAREST WATER SOURCE: **<1,000'** NEAREST SURFACE WATER: **<200'** NMOCD TPH CLOSURE STD: **100** ppm



OVM CALIB. READ. = **53.8** ppm RF = 0.52

OVM CALIB. GAS = **100** ppm

TIME: **9:57** am DATE: **09/17/12**

MISCELL. NOTES

WO: **N15079146**

PO #: **4300066178**

PK: _____

PJ #: _____

OCD Appr. date(s): **NA**

| | |
|---------|-------------------------------------|
| Tank ID | Permit date(s): NA |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |
| | BGT Sidewalls Visible: Y / N |

Magnetic declination: **10° E**

TRAVEL NOTES: CALLOUT: _____ ONSITE: **8/15/12, 8/17/12, 8/21/12, 8/22/12, 8/24/12, 8/29/12, 9/5/12, 9/10/12, 9/17/12**

| | | |
|-------------------|---|--|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004508808 TANK ID (if applicable): NA |
|-------------------|---|--|

FIELD REPORT:

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

Reclamation of unknown release source near production tanks

PAGE #: **5** of **6**

SITE INFORMATION:

SITE NAME: **GUTIERREZ GC B # 1**

DATE STARTED: **09/20/12**

QUAD/UNIT: **B** SEC: **4** TWP: **29N** RNG: **9W** PM: **NM** CNTY: **SJ** ST: **NM**

DATE FINISHED:

1/4 -1/4 FOOTAGE: **1700'N / 1650'E** **NW/NE** LEASE TYPE: FEDERAL / STATE **FEE** / INDIAN

ENVIRONMENTAL SPECIALIST(S): **NV**

LEASE #: **-** PROD. FORMATION: **DK** CONTRACTOR: **PAUL & SONS MBF - D. DECKER**

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: **36.758165 X 107.782619** GL ELEV.: **5626'**

| | | |
|-----------------------|---|---|
| 1) SEC#3 @ 21' | GPS COORD.: 36.758741 X 107.781875 | DISTANCE/BEARING FROM W.H.: 302.5', N46E |
| 2) SSW#2 @ 23' | GPS COORD.: 36.758727 X 107.782043 | DISTANCE/BEARING FROM W.H.: 265.5', N39.5E |
| 3) SSW#3 @ 20' | GPS COORD.: 36.758723 X 107.781979 | DISTANCE/BEARING FROM W.H.: 276.5', N42.5E |
| 4) SSW#4 @ 20' | GPS COORD.: 36.758714 X 107.781917 | DISTANCE/BEARING FROM W.H.: 287', N45.5E |

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL**

| SAMPLE ID | SAMPLE DATE | SAMPLE TIME | LAB ANALYSIS | OVM READING (ppm) |
|-----------------------|-----------------|-------------|-------------------|-------------------|
| 1) SEC#3 @ 21' | 09/18/12 | 1044 | 8015, 8021 | 225 |
| 2) SSW#2 @ 23' | 09/20/12 | 0925 | 8015, 8021 | 35.6 |
| 3) SSW#3 @ 20' | 09/20/12 | 0939 | 8015, 8021 | 0.0 |
| 4) SSW#4 @ 20' | 09/20/12 | 0943 | 8015, 8021 | 217.4 |

SOIL DESCRIPTION:

SOIL TYPE: **SAND** / SILTY SAND / SILT / SILTY CLAY / **CLAY** / GRAVEL / OTHER

SOIL COLOR: **DARK YELLOWISH ORANGE TO BLACK**

COHESION (ALL OTHERS): **NON COHESIVE** / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): **NON PLASTIC** / SLIGHTLY PLASTIC / **COHESIVE** / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): LOOSE / **FIRM** / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / **FIRM** / **STIFF** / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / **SATURATED** / SUPER SATURATED

HC ODOR DETECTED: YES / **NO** EXPLANATION - **ONLY FROM**

SAMPLE TYPE: **GRAB** / COMPOSITE - # OF PTS. **NA**

DISCOLORED SOILS NOTED BELOW.

DISCOLORATION/STAINING OBSERVED: **YES** / NO EXPLANATION - **MOSTLY BETWEEN 19' - 22' BELOW GRADE IN EAST HALF OF SOUTH SIDEWALL & SOUTHEAST CORNER - MEDIUM GRAY TO BLACK.**

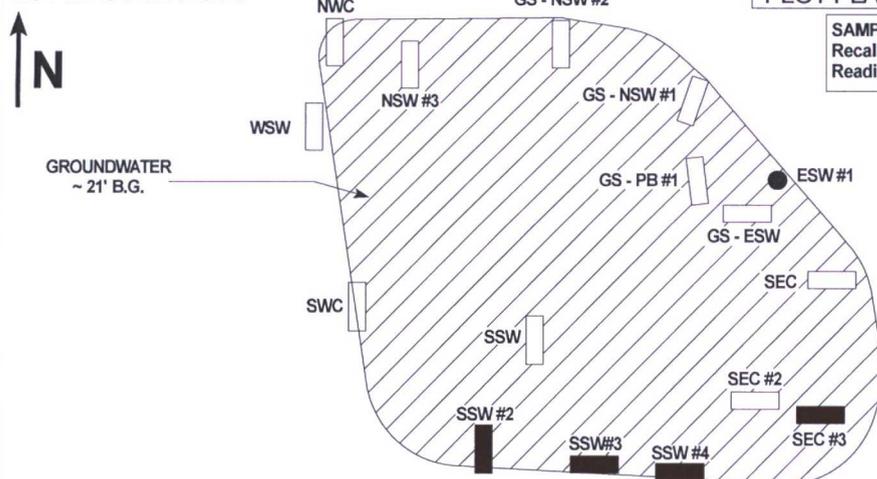
ANY AREAS DISPLAYING WETNESS: **YES** / NO EXPLANATION - **GROUNDWATER OBSERVED @ ~ 21' BELOW GRADE.**

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **YES** / NO EXPLANATION: **PREVIOUSLY DISCOVERED IN MAY 2012 (see initial field report)**

ADDITIONAL COMMENTS: **CLAY AT 21' TO 23' BELOW GRADE AT WEST SIDEWALL (WSW) SAMPLE - OLIVE GRAY.**

EXCAVATION DIMENSIONS (if applicable): _____ ft. X _____ ft. X _____ ft. cubic yards excavated (if applicable): _____
 DEPTH TO GROUNDWATER: **~21'** NEAREST WATER SOURCE: **<1,000'** NEAREST SURFACE WATER: **<200'** NMOCD TPH CLOSURE STD: **100** ppm

SITE SKETCH



PLOT PLAN circle: attached
 SAMPLE DATE: 09/18/12
 Recalibrated OVM @ TIME 1050
 Reading = 53.1 ppm.

OVM CALIB. READ. = **53.4** ppm RF = 0.52
 OVM CALIB. GAS = **100** ppm
 TIME: **9:59** am DATE: **09/20/12**

MISCELL. NOTES

WO: **N15079146**
 PO #: **4300066178**

OVM = Organic Vapor Meter
 ppm = parts per million

Magnetic declination: **10° E**

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

TRAVEL NOTES: ONSITE: **8/15/12, 8/17/12, 8/21/12, 8/22/12, 8/24/12, 8/29/12, 9/5/12, 9/10/12, 9/17/12, 9/18/12, 9/20/12**

| | | |
|-------------------|---|--|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004508808 TANK ID (if applicable): NA |
|-------------------|---|--|

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:
Reclamation of unknown release source near production tanks

PAGE #: **6** of **6**

| | |
|--|--------------------------------------|
| SITE INFORMATION: | SITE NAME: GUTIERREZ GC B # 1 |
| QUAD/UNIT: B SEC: 4 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM | |
| 1/4 -1/4/FOOTAGE: 1700'N / 1650'E NW/NE LEASE TYPE: FEDERAL / STATE / <u>FEE</u> / INDIAN | |
| LEASE #: - PROD. FORMATION: DK CONTRACTOR: PAUL & SONS MBF - D. DECKER | |

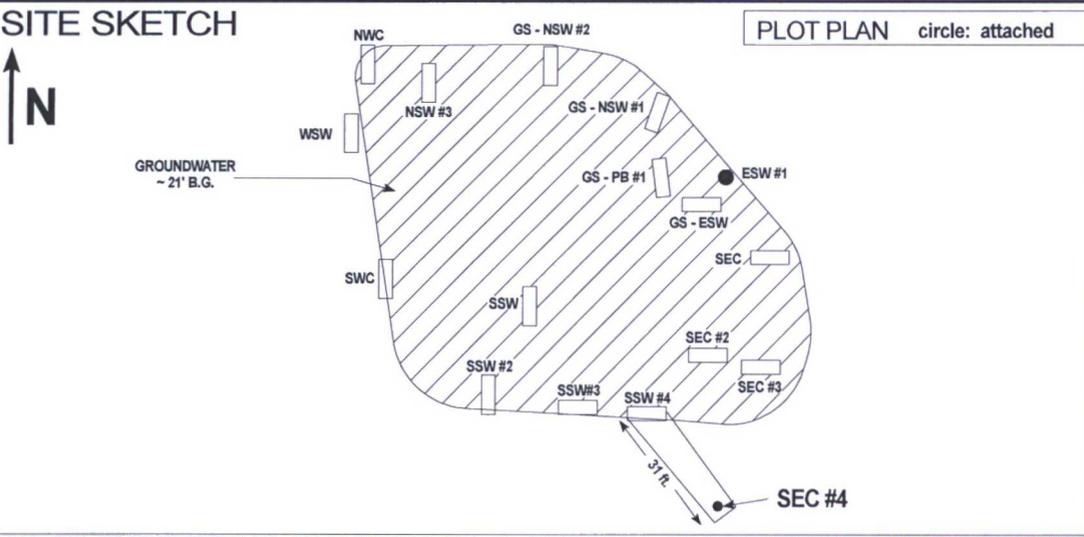
DATE STARTED: **09/26/12**
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST(S): **NV**

| | |
|--|---|
| REFERENCE POINT: | WELL HEAD (W.H.) GPS COORD.: 36.758165 X 107.782619 GL ELEV.: 5626' |
| 1) SEC#4 GPS COORD.: 36.758650 X 107.781844 DISTANCE/BEARING FROM WH.: 288', N52E | |
| 2) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____ | |
| 3) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____ | |
| 4) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____ | |

| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: | OVM READING (ppm) |
|---|---|-------------------|
| 1) SAMPLE ID: SEC#4@ 20' SAMPLE DATE: 09/26/12 SAMPLE TIME: 1114 LAB ANALYSIS: 8015, 8021 | HALL | 0.0 |
| 2) SAMPLE ID: SEC#4@ 21' SAMPLE DATE: 09/26/12 SAMPLE TIME: 1115 LAB ANALYSIS: 8015, 8021 | | 0.0 |
| 3) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ | | |
| 4) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ | | |

| | |
|--|---|
| SOIL DESCRIPTION: | SOIL TYPE: <u>SAND</u> / <u>SILTY SAND</u> / <u>SILT</u> / <u>SILTY CLAY</u> / <u>CLAY</u> / GRAVEL / OTHER _____ |
| SOIL COLOR: DARK YELLOWISH ORANGE TO BLACK | |
| COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE | PLASTICITY (CLAYS): NON PLASTIC / <u>SLIGHTLY PLASTIC</u> / <u>COHESIVE</u> / MEDIUM PLASTIC / HIGHLY PLASTIC |
| CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>FIRM</u> / DENSE / VERY DENSE | DENSITY (COHESIVE CLAYS & SILTS): SOFT / <u>FIRM</u> / <u>STIFF</u> / VERY STIFF / HARD |
| MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / WET / <u>SATURATED</u> / SUPER SATURATED | HC ODOR DETECTED: YES / <u>NO</u> EXPLANATION - ONLY FROM DISCOLORED SOILS NOTED BELOW. |
| SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. NA | |
| DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - MOSTLY BETWEEN 19' - 22' BELOW GRADE IN EAST HALF OF SOUTH SIDEWALL & SOUTHEAST CORNER - MEDIUM GRAY TO BLACK. | |
| ANY AREAS DISPLAYING WETNESS: <u>YES</u> / NO EXPLANATION - GROUNDWATER OBSERVED @ ~ 21' BELOW GRADE. | |
| APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> / NO EXPLANATION: PREVIOUSLY DISCOVERED IN MAY 2012 (see initial field report) | |
| ADDITIONAL COMMENTS: _____ | |

EXCAVATION DIMENSIONS (if applicable): **80** ft. X **65** ft. X **23** ft. cubic yards excavated (if applicable): **~4,500 - 5,000**
DEPTH TO GROUNDWATER: **~21'** NEAREST WATER SOURCE: **<1,000'** NEAREST SURFACE WATER: **<200'** NMOCD TPH CLOSURE STD: **100** ppm



| | |
|------------------------------------|-----------------------|
| OVM CALIB. READ. = 52.6 ppm | RF = 0.52 |
| OVM CALIB. GAS = 100 ppm | |
| TIME: 11:35 am | DATE: 09/26/12 |

MISCELL. NOTES
 WO: **N15079146**
 PO #: **4300066178**

OVM = Organic Vapor Meter
 ppm = parts per million

Magnetic declination: **10° E**

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

TRAVEL NOTES: ONSITE: **8/15/12, 8/17/12, 8/21/12, 8/22/12, 8/24/12, 8/29/12, 9/5/12, 9/10/12, 9/17/12, 9/18/12, 9/20/12**

Analytical Report

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH1 @ 10' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 8:55:00 AM

Lab ID: 1206018-001

Matrix: MEOH (SOIL)

Received Date: 6/1/2012 10:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|-----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 360 | 10 | | mg/Kg | 1 | 6/1/2012 10:50:29 AM |
| Surr: DNOP | 118 | 82.1-121 | | %REC | 1 | 6/1/2012 10:50:29 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 58 | 30 | | mg/Kg | 20 | 6/1/2012 11:31:51 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BDH |
| Benzene | ND | 0.20 | | mg/Kg | 4 | 6/1/2012 2:34:48 PM |
| Toluene | 4.1 | 0.20 | | mg/Kg | 4 | 6/1/2012 2:34:48 PM |
| Ethylbenzene | 5.0 | 0.20 | | mg/Kg | 4 | 6/1/2012 2:34:48 PM |
| Xylenes, Total | 75 | 10 | | mg/Kg | 100 | 6/1/2012 12:33:50 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.7 | 70-130 | | %REC | 4 | 6/1/2012 2:34:48 PM |
| Surr: 4-Bromofluorobenzene | 148 | 70-130 | S | %REC | 4 | 6/1/2012 2:34:48 PM |
| Surr: Dibromofluoromethane | 109 | 71.7-132 | | %REC | 4 | 6/1/2012 2:34:48 PM |
| Surr: Toluene-d8 | 94.0 | 70-130 | | %REC | 4 | 6/1/2012 2:34:48 PM |
| EPA METHOD 8015B MOD: GASOLINE RANGE | | | | | | Analyst: BDH |
| Gasoline Range Organics (GRO) | 1800 | 500 | | mg/Kg | 100 | 6/1/2012 12:33:50 PM |
| Surr: BFB | 97.9 | 70-130 | | %REC | 100 | 6/1/2012 12:33:50 PM |

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
 RL Reporting Detection Limit

Analytical Report

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH2 @ 9' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 9:33:00 AM

Lab ID: 1206018-002

Matrix: MEOH (SOIL)

Received Date: 6/1/2012 10:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 6/1/2012 11:12:15 AM |
| Surr: DNOP | 111 | 82.1-121 | | %REC | 1 | 6/1/2012 11:12:15 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | ND | 30 | | mg/Kg | 20 | 6/1/2012 11:44:15 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BDH |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:01:34 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:01:34 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:01:34 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 6/1/2012 1:01:34 PM |
| Surr: 1,2-Dichloroethane-d4 | 87.9 | 70-130 | | %REC | 1 | 6/1/2012 1:01:34 PM |
| Surr: 4-Bromofluorobenzene | 91.3 | 70-130 | | %REC | 1 | 6/1/2012 1:01:34 PM |
| Surr: Dibromofluoromethane | 92.5 | 71.7-132 | | %REC | 1 | 6/1/2012 1:01:34 PM |
| Surr: Toluene-d8 | 91.5 | 70-130 | | %REC | 1 | 6/1/2012 1:01:34 PM |
| EPA METHOD 8015B MOD: GASOLINE RANGE | | | | | | Analyst: BDH |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 6/1/2012 1:01:34 PM |
| Surr: BFB | 91.3 | 70-130 | | %REC | 1 | 6/1/2012 1:01:34 PM |

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH3 @ 10' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 9:50:00 AM

Lab ID: 1206018-003

Matrix: MEOH (SOIL)

Received Date: 6/1/2012 10:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 1100 | 100 | | mg/Kg | 10 | 6/1/2012 12:17:39 PM |
| Surr: DNOP | 0 | 82.1-121 | S | %REC | 10 | 6/1/2012 12:17:39 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 300 | 30 | | mg/Kg | 20 | 6/1/2012 11:56:39 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BDH |
| Benzene | ND | 0.20 | | mg/Kg | 4 | 6/1/2012 3:30:07 PM |
| Toluene | ND | 0.20 | | mg/Kg | 4 | 6/1/2012 3:30:07 PM |
| Ethylbenzene | 0.28 | 0.20 | | mg/Kg | 4 | 6/1/2012 3:30:07 PM |
| Xylenes, Total | 4.6 | 0.40 | | mg/Kg | 4 | 6/1/2012 3:30:07 PM |
| Surr: 1,2-Dichloroethane-d4 | 89.3 | 70-130 | | %REC | 4 | 6/1/2012 3:30:07 PM |
| Surr: 4-Bromofluorobenzene | 140 | 70-130 | S | %REC | 4 | 6/1/2012 3:30:07 PM |
| Surr: Dibromofluoromethane | 91.8 | 71.7-132 | | %REC | 4 | 6/1/2012 3:30:07 PM |
| Surr: Toluene-d8 | 91.1 | 70-130 | | %REC | 4 | 6/1/2012 3:30:07 PM |
| EPA METHOD 8015B MOD: GASOLINE RANGE | | | | | | Analyst: BDH |
| Gasoline Range Organics (GRO) | 1100 | 250 | | mg/Kg | 50 | 6/1/2012 1:29:08 PM |
| Surr: BFB | 98.5 | 70-130 | | %REC | 50 | 6/1/2012 1:29:08 PM |

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
 RL Reporting Detection Limit

Analytical Report

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH5 @ 10' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 10:16:00 AM

Lab ID: 1206018-004

Matrix: MEOH (SOIL)

Received Date: 6/1/2012 10:05:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 6/1/2012 11:55:50 AM |
| Surr: DNOP | 105 | 82.1-121 | | %REC | 1 | 6/1/2012 11:55:50 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | ND | 30 | | mg/Kg | 20 | 6/1/2012 12:09:04 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BDH |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:56:47 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:56:47 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 6/1/2012 1:56:47 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 6/1/2012 1:56:47 PM |
| Surr: 1,2-Dichloroethane-d4 | 86.8 | 70-130 | | %REC | 1 | 6/1/2012 1:56:47 PM |
| Surr: 4-Bromofluorobenzene | 88.4 | 70-130 | | %REC | 1 | 6/1/2012 1:56:47 PM |
| Surr: Dibromofluoromethane | 90.4 | 71.7-132 | | %REC | 1 | 6/1/2012 1:56:47 PM |
| Surr: Toluene-d8 | 92.6 | 70-130 | | %REC | 1 | 6/1/2012 1:56:47 PM |
| EPA METHOD 8015B MOD: GASOLINE RANGE | | | | | | Analyst: BDH |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 6/1/2012 1:56:47 PM |
| Surr: BFB | 88.4 | 70-130 | | %REC | 1 | 6/1/2012 1:56:47 PM |

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1208877

Date Reported: 8/29/2012

CLIENT: Blagg Engineering

Client Sample ID: GS-NSW#1 @ 19'-Unknown Rel

Project: Gutierrez GC B #1

Collection Date: 8/17/2012 10:17:00 AM

Lab ID: 1208877-001

Matrix: SOIL

Received Date: 8/21/2012 10:31:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 8/23/2012 9:10:37 AM |
| Surr: DNOP | 118 | 77.6-140 | | %REC | 1 | 8/23/2012 9:10:37 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/23/2012 3:53:59 PM |
| Surr: BFB | 94.8 | 84-116 | | %REC | 1 | 8/23/2012 3:53:59 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 8/23/2012 3:53:59 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/23/2012 3:53:59 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/23/2012 3:53:59 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/23/2012 3:53:59 PM |
| Surr: 4-Bromofluorobenzene | 95.1 | 80-120 | | %REC | 1 | 8/23/2012 3:53:59 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 1.9 | 1.5 | | mg/Kg | 1 | 8/22/2012 1:20:09 PM |

| | | | | |
|--------------------|----|--|---|---|
| Qualifiers: | 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 | R | RPD outside accepted recovery limits |
| | RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |
| | X | Value exceeds Maximum Contaminant Level. | | |

Analytical Report

Lab Order 1208877

Date Reported: 8/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GS-NSW#2 @20' Unknown Rele

Project: Gutierrez GC B #1

Collection Date: 8/17/2012 10:22:00 AM

Lab ID: 1208877-002

Matrix: MEOH (SOIL)

Received Date: 8/21/2012 10:31:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 8/21/2012 12:21:10 PM |
| Surr: DNOP | 101 | 77.6-140 | | %REC | 1 | 8/21/2012 12:21:10 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/21/2012 12:42:03 PM |
| Surr: BFB | 98.1 | 84-116 | | %REC | 1 | 8/21/2012 12:42:03 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/21/2012 12:42:03 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/21/2012 12:42:03 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/21/2012 12:42:03 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/21/2012 12:42:03 PM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 8/21/2012 12:42:03 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 33 | 30 | | mg/Kg | 20 | 8/21/2012 2:52:46 PM |

| | | | | |
|--------------------|----|--|---|---|
| Qualifiers: | 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 | R | RPD outside accepted recovery limits |
| | RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |
| | X | Value exceeds Maximum Contaminant Level. | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1208C22
 Date Reported: 9/5/2012

CLIENT: Blagg Engineering
 Project: GUTIERREZ GC B #1
 Lab ID: 1208C22-001

Matrix: SOIL

Client Sample ID: GS-PB#1 @ 23'-unknown release
 Collection Date: 8/21/2012 8:46:00 AM
 Received Date: 8/28/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 8/30/2012 10:29:19 AM |
| Surr: DNOP | 112 | 77.6-140 | | %REC | 1 | 8/30/2012 10:29:19 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/30/2012 8:01:07 PM |
| Surr: BFB | 98.4 | 84-116 | | %REC | 1 | 8/30/2012 8:01:07 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 8/30/2012 8:01:07 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/30/2012 8:01:07 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/30/2012 8:01:07 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/30/2012 8:01:07 PM |
| Surr: 4-Bromofluorobenzene | 98.9 | 80-120 | | %REC | 1 | 8/30/2012 8:01:07 PM |

Qualifiers:

| | | | |
|----|--|---|---|
| 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 | R | RPD outside accepted recovery limits |
| RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |
| X | Value exceeds Maximum Contaminant Level. | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GS-ESW#1 @ 16'-unknown relea

Project: GUTIERREZ GC B #1

Collection Date: 8/24/2012 12:00:00 PM

Lab ID: 1208C22-002

Matrix: SOIL

Received Date: 8/28/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 8/30/2012 10:55:14 AM |
| Surr: DNOP | 114 | 77.6-140 | | %REC | 1 | 8/30/2012 10:55:14 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/30/2012 8:29:53 PM |
| Surr: BFB | 97.5 | 84-116 | | %REC | 1 | 8/30/2012 8:29:53 PM |

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NWC @ 20' - unknown release

Project: Gutierrez GC B #1

Collection Date: 9/17/2012 9:25:00 AM

Lab ID: 1209922-001

Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/23/2012 7:06:56 PM |
| Surr: DNOP | 99.0 | 77.6-140 | | %REC | 1 | 9/23/2012 7:06:56 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/25/2012 2:23:50 AM |
| Surr: BFB | 99.0 | 84-116 | | %REC | 1 | 9/25/2012 2:23:50 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 2:23:50 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 2:23:50 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 2:23:50 AM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 9/25/2012 2:23:50 AM |
| Surr: 4-Bromofluorobenzene | 99.4 | 80-120 | | %REC | 1 | 9/25/2012 2:23:50 AM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Analytical Report

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: WSW @ 22' - unknown release

Project: Gutierrez GC B #1

Collection Date: 9/17/2012 9:30:00 AM

Lab ID: 1209922-002

Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 9/23/2012 7:32:17 PM |
| Surr: DNOP | 104 | 77.6-140 | | %REC | 1 | 9/23/2012 7:32:17 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/25/2012 5:07:54 PM |
| Surr: BFB | 102 | 84-116 | | %REC | 1 | 9/25/2012 5:07:54 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 5:07:54 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 5:07:54 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/25/2012 5:07:54 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 9/25/2012 5:07:54 PM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 1 | 9/25/2012 5:07:54 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SWC @ 21' - unknown release

Project: Gutierrez GC B #1

Collection Date: 9/17/2012 9:38:00 AM

Lab ID: 1209922-003

Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 13 | 10 | | mg/Kg | 1 | 9/23/2012 7:57:42 PM |
| Surr: DNOP | 105 | 77.6-140 | | %REC | 1 | 9/23/2012 7:57:42 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 31 | 9.8 | | mg/Kg | 2 | 9/25/2012 5:36:40 PM |
| Surr: BFB | 310 | 84-116 | S | %REC | 2 | 9/25/2012 5:36:40 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.098 | | mg/Kg | 2 | 9/25/2012 5:36:40 PM |
| Toluene | ND | 0.098 | | mg/Kg | 2 | 9/25/2012 5:36:40 PM |
| Ethylbenzene | 0.19 | 0.098 | | mg/Kg | 2 | 9/25/2012 5:36:40 PM |
| Xylenes, Total | ND | 0.20 | | mg/Kg | 2 | 9/25/2012 5:36:40 PM |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 2 | 9/25/2012 5:36:40 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1209922

Date Reported: 10/2/2012

CLIENT: Blagg Engineering
Project: Gutierrez GC B #1
Lab ID: 1209922-004

Matrix: SOIL

Client Sample ID: SSW @ 19' - unknown release
Collection Date: 9/17/2012 9:45:00 AM
Received Date: 9/20/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|-----|----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 2400 | 100 | | mg/Kg | 10 | 9/24/2012 2:26:48 PM |
| Surr: DNOP | 0 | 77.6-140 | S | %REC | 10 | 9/24/2012 2:26:48 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 3500 | 490 | | mg/Kg | 100 | 9/25/2012 3:50:11 AM |
| Surr: BFB | 205 | 84-116 | S | %REC | 100 | 9/25/2012 3:50:11 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 2.5 | | mg/Kg | 100 | 9/25/2012 3:50:11 AM |
| Toluene | 14 | 4.9 | | mg/Kg | 100 | 9/25/2012 3:50:11 AM |
| Ethylbenzene | 25 | 4.9 | | mg/Kg | 100 | 9/25/2012 3:50:11 AM |
| Xylenes, Total | 330 | 9.8 | | mg/Kg | 100 | 9/25/2012 3:50:11 AM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 100 | 9/25/2012 3:50:11 AM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1209870

Date Reported: 9/24/2012

CLIENT: Blagg Engineering

Client Sample ID: SEC #3 @21'- unknown release

Project: Gutierrez GC B #1

Collection Date: 9/18/2012 10:44:00 AM

Lab ID: 1209870-001

Matrix: MEOH (SOIL)

Received Date: 9/20/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 280 | | | mg/Kg | 1 | 9/21/2012 9:29:17 AM |
| Surr: DNOP | 116 | 77.6-140 | | %REC | 1 | 9/21/2012 9:29:17 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 1700 | | | mg/Kg | 20 | 9/20/2012 12:36:06 PM |
| Surr: BFB | 534 | 84-116 | S | %REC | 20 | 9/20/2012 12:36:06 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.50 | | mg/Kg | 20 | 9/20/2012 12:36:06 PM |
| Toluene | ND | 1.0 | | mg/Kg | 20 | 9/20/2012 12:36:06 PM |
| Ethylbenzene | 11 | 1.0 | | mg/Kg | 20 | 9/20/2012 12:36:06 PM |
| Xylenes, Total | 52 | 2.0 | | mg/Kg | 20 | 9/20/2012 12:36:06 PM |
| Surr: 4-Bromofluorobenzene | 128 | 80-120 | S | %REC | 20 | 9/20/2012 12:36:06 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #2 @ 23'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:25:00 AM

Lab ID: 1209B22-001

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 9/27/2012 10:46:33 AM |
| Surr: DNOP | 109 | 77.6-140 | | %REC | 1 | 9/27/2012 10:46:33 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 9/29/2012 8:24:33 PM |
| Surr: BFB | 99.1 | 84-116 | | %REC | 1 | 9/29/2012 8:24:33 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 9/29/2012 8:24:33 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 9/29/2012 8:24:33 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 9/29/2012 8:24:33 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 9/29/2012 8:24:33 PM |
| Surr: 4-Bromofluorobenzene | 98.3 | 80-120 | | %REC | 1 | 9/29/2012 8:24:33 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Analytical Report

Lab Order 1209B22

Date Reported: 10/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #3 @ 20'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:39:00 AM

Lab ID: 1209B22-002

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 9/27/2012 11:11:38 AM |
| Surr: DNOP | 108 | 77.6-140 | | %REC | 1 | 9/27/2012 11:11:38 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/29/2012 8:53:21 PM |
| Surr: BFB | 98.8 | 84-116 | | %REC | 1 | 9/29/2012 8:53:21 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 9/29/2012 8:53:21 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/29/2012 8:53:21 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/29/2012 8:53:21 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 9/29/2012 8:53:21 PM |
| Surr: 4-Bromofluorobenzene | 97.9 | 80-120 | | %REC | 1 | 9/29/2012 8:53:21 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #4 @ 20'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:43:00 AM

Lab ID: 1209B22-003

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 120 | 10 | | mg/Kg | 1 | 9/27/2012 11:36:43 AM |
| Surr: DNOP | 108 | 77.6-140 | | %REC | 1 | 9/27/2012 11:36:43 AM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 390 | 98 | | mg/Kg | 20 | 9/30/2012 1:33:20 PM |
| Surr: BFB | 254 | 84-116 | S | %REC | 20 | 9/30/2012 1:33:20 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.98 | | mg/Kg | 20 | 9/30/2012 1:33:20 PM |
| Toluene | ND | 0.98 | | mg/Kg | 20 | 9/30/2012 1:33:20 PM |
| Ethylbenzene | 1.7 | 0.98 | | mg/Kg | 20 | 9/30/2012 1:33:20 PM |
| Xylenes, Total | ND | 2.0 | | mg/Kg | 20 | 9/30/2012 1:33:20 PM |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %REC | 20 | 9/30/2012 1:33:20 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210004

Date Reported: 10/9/2012

CLIENT: Blagg Engineering

Client Sample ID: SEC #4 @ 20'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/26/2012 11:14:00 AM

Lab ID: 1210004-001

Matrix: SOIL

Received Date: 9/29/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 10/2/2012 12:12:09 PM |
| Surr: DNOP | 109 | 77.6-140 | | %REC | 1 | 10/2/2012 12:12:09 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/6/2012 12:34:33 AM |
| Surr: BFB | 98.9 | 84-116 | | %REC | 1 | 10/6/2012 12:34:33 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/4/2012 5:26:14 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/4/2012 5:26:14 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/4/2012 5:26:14 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/4/2012 5:26:14 PM |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 10/4/2012 5:26:14 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SEC #4 @ 21'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/26/2012 11:15:00 AM

Lab ID: 1210004-002

Matrix: SOIL

Received Date: 9/29/2012 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 10/2/2012 12:37:31 PM |
| Surr: DNOP | 111 | 77.6-140 | | %REC | 1 | 10/2/2012 12:37:31 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 10/6/2012 1:03:17 AM |
| Surr: BFB | 112 | 84-116 | | %REC | 1 | 10/6/2012 1:03:17 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 10/4/2012 5:55:02 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 10/4/2012 5:55:02 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 10/4/2012 5:55:02 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 10/4/2012 5:55:02 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %REC | 1 | 10/4/2012 5:55:02 PM |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1308729

Date Reported: 8/27/2013

CLIENT: Blagg Engineering

Client Sample ID: MW #1

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 1:15:00 PM

Lab ID: 1308729-001

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 9:57:34 PM | R12735 |
| Toluene | ND | 1.0 | | µg/L | 1 | 8/19/2013 9:57:34 PM | R12735 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 9:57:34 PM | R12735 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 8/19/2013 9:57:34 PM | R12735 |
| Surr: 4-Bromofluorobenzene | 103 | 69.4-129 | | %REC | 1 | 8/19/2013 9:57:34 PM | R12735 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | 0.85 | 0.10 | | mg/L | 1 | 8/16/2013 11:15:46 PM | R12706 |
| Chloride | 18 | 10 | | mg/L | 20 | 8/16/2013 11:28:11 PM | R12706 |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | mg/L | 1 | 8/16/2013 11:15:46 PM | R12706 |
| Sulfate | 1700 | 25 | | mg/L | 50 | 8/20/2013 5:11:02 PM | R12777 |
| EPA METHOD 200.7: DISSOLVED METALS | | | | | | | Analyst: JLF |
| Iron | 1.8 | 0.10 | * | mg/L | 5 | 8/22/2013 5:06:16 PM | R12837 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 2840 | 200 | * | mg/L | 1 | 8/21/2013 11:35:00 AM | 8911 |

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 1308729

Date Reported: 8/27/2013

CLIENT: Blagg Engineering

Client Sample ID: MW #3

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 2:45:00 PM

Lab ID: 1308729-003

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 10:57:54 PM | R12735 |
| Toluene | ND | 1.0 | | µg/L | 1 | 8/19/2013 10:57:54 PM | R12735 |
| Ethylbenzene | 5.7 | 1.0 | | µg/L | 1 | 8/19/2013 10:57:54 PM | R12735 |
| Xylenes, Total | 42 | 2.0 | | µg/L | 1 | 8/19/2013 10:57:54 PM | R12735 |
| Surr: 4-Bromofluorobenzene | 126 | 69.4-129 | | %REC | 1 | 8/19/2013 10:57:54 PM | R12735 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | 1.0 | 0.10 | | mg/L | 1 | 8/17/2013 12:05:25 AM | R12706 |
| Chloride | 47 | 10 | | mg/L | 20 | 8/17/2013 12:17:50 AM | R12706 |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | mg/L | 1 | 8/17/2013 12:05:25 AM | R12706 |
| Sulfate | 2300 | 50 | | mg/L | 100 | 8/20/2013 6:00:40 PM | R12777 |
| EPA METHOD 200.7: DISSOLVED METALS | | | | | | | Analyst: JLF |
| Iron | 13 | 0.40 | * | mg/L | 20 | 8/22/2013 6:47:30 PM | R12837 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 4330 | 200 | * | mg/L | 1 | 8/21/2013 11:35:00 AM | 8911 |

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 | |

Analytical Report

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 2:00:00 PM

Lab ID: 1308729-004

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|-----|-----------------------|--------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:27:56 PM | R12735 |
| Toluene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:27:56 PM | R12735 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:27:56 PM | R12735 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 8/19/2013 11:27:56 PM | R12735 |
| Surr: 4-Bromofluorobenzene | 110 | 69.4-129 | | %REC | 1 | 8/19/2013 11:27:56 PM | R12735 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | 0.93 | 0.10 | | mg/L | 1 | 8/17/2013 12:30:14 AM | R12706 |
| Chloride | 92 | 10 | | mg/L | 20 | 8/17/2013 12:42:39 AM | R12706 |
| Nitrogen, Nitrate (As N) | 0.25 | 0.10 | | mg/L | 1 | 8/17/2013 12:30:14 AM | R12706 |
| Sulfate | 2900 | 50 | | mg/L | 100 | 8/20/2013 6:13:05 PM | R12777 |
| EPA METHOD 200.7: DISSOLVED METALS | | | | | | | Analyst: JLF |
| Iron | 8.1 | 0.20 | * | mg/L | 10 | 8/22/2013 6:49:44 PM | R12837 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 5050 | 200 | * | mg/L | 1 | 8/21/2013 11:35:00 AM | 8911 |

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 1308729

Date Reported: 8/27/2013

CLIENT: Blagg Engineering

Client Sample ID: MW #5

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 11:40:00 AM

Lab ID: 1308729-005

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:58:09 PM | R12735 |
| Toluene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:58:09 PM | R12735 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 8/19/2013 11:58:09 PM | R12735 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 8/19/2013 11:58:09 PM | R12735 |
| Surr: 4-Bromofluorobenzene | 109 | 69.4-129 | | %REC | 1 | 8/19/2013 11:58:09 PM | R12735 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | 0.53 | 0.10 | | mg/L | 1 | 8/17/2013 12:55:04 AM | R12706 |
| Chloride | 12 | 0.50 | | mg/L | 1 | 8/17/2013 12:55:04 AM | R12706 |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | mg/L | 1 | 8/17/2013 12:55:04 AM | R12706 |
| Sulfate | 1300 | 25 | | mg/L | 50 | 8/20/2013 6:25:30 PM | R12777 |
| EPA METHOD 200.7: DISSOLVED METALS | | | | | | | Analyst: JLF |
| Iron | 1.4 | 0.10 | * | mg/L | 5 | 8/22/2013 5:36:42 PM | R12837 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 2420 | 200 | * | mg/L | 1 | 8/21/2013 11:35:00 AM | 8911 |

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 | | |

Analytical Report

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #6

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 12:25:00 PM

Lab ID: 1308729-006

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | µg/L | 1 | 8/20/2013 12:28:19 AM | R12735 |
| Toluene | ND | 1.0 | | µg/L | 1 | 8/20/2013 12:28:19 AM | R12735 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 8/20/2013 12:28:19 AM | R12735 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 8/20/2013 12:28:19 AM | R12735 |
| Surr: 4-Bromofluorobenzene | 107 | 69.4-129 | | %REC | 1 | 8/20/2013 12:28:19 AM | R12735 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Fluoride | 0.88 | 0.10 | | mg/L | 1 | 8/17/2013 1:44:42 AM | R12706 |
| Chloride | 18 | 0.50 | | mg/L | 1 | 8/17/2013 1:44:42 AM | R12706 |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | mg/L | 1 | 8/17/2013 1:44:42 AM | R12706 |
| Sulfate | 1800 | 50 | | mg/L | 100 | 8/20/2013 6:37:55 PM | R12777 |
| EPA METHOD 200.7: DISSOLVED METALS | | | | | | | Analyst: JLF |
| Iron | 0.85 | 0.020 | * | mg/L | 1 | 8/22/2013 5:39:16 PM | R12837 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 3460 | 200 | * | mg/L | 1 | 8/21/2013 11:35:00 AM | 8911 |

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 | |

Chain-of-Custody Record

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

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

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

email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush **COMPLETE BY 06/01/2012**

Project Name: **GUTIERREZ GC B # 1**

Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice: Yes No

Sample Temperature: **-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 + THB's (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|-----------------------------------|----------------------|-------------------|----------------|-----------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------|------------------------|
| 5/31/12 | 0855 | SOIL | TH1 @ 10' - historical release | 4 oz. - 1 MeOH | Cool | 120608 -001 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |
| 5/31/12 | 0933 | SOIL | TH2 @ 9' - historical release | 4 oz. - 1 | Cool | -002 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |
| 5/31/12 | 0950 | SOIL | TH3 @ 10' - historical release | 4 oz. - 1 | Cool | -003 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |
| 5/31/12 | 1016 | SOIL | TH5 @ 10' - historical release | 4 oz. - 1 | Cool | -004 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |

Date: 5/31/12 Time: 1445 Relinquished by: *[Signature]*

Date: 6/1/12 Time: 2005 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 5/31/12 Time: 1445

Received by: *[Signature]* Date: 06/01/12 Time: 1005

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

BILL DIRECTLY TO BP:
 Jeff Peace, 200 Energy Court, Farmington, NM 87401
 Work Order: N1410278 Paykey: ZSCHWLLBGT

Chain-of-Custody Record

Turn-Around Time:

COMPLETE BY
08/21/2012

Client: **BLAGG ENGR. / BR 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
BLOOMFIELD, NM 87413**

Project Name:
GUTIERREZ GC B # 1

Project #:

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

Project Manager:
NELSON VELEZ

email or Fax#: _____
QA/QC Package:
 Standard Level 4 (Full Validation)

Sampler: **NELSON VELEZ**

Accreditation:
 NELAP Other _____

On Ice: Yes No

EDD (Type) _____

Sample Temperature: **10**

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TPB (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|----------------------------------|----------------------|-------------------|-----------------|---------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------|------------------------|
| 8/17/12 | 1017 | SOIL | GS-NSW#1 @ 19' - unknown release | 4 oz. - 1 | Cool | 1208877 -001 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |
| 8/17/12 | 1022 | SOIL | GS-NSW#2 @ 20' - unknown release | 4 oz. - 1 | Cool | -002 | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | |
| | | | | MEDH Kit | | 08/21 | | | | | | | | | | | | | | |

Date: 8/20/12 Time: 1245 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 8/20/12 Time: 1700

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

Date: 8/20/12 Time: 1747 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 08/21/12 Time: 103

Send invoice to:

Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

Chain-of-Custody Record

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

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

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

email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name:
GUTIERREZ GC B # 1

Project #:

Project Manager:
NELSON VELEZ

Sampler: **NELSON VELEZ** *NV*

On Ice: Yes No

Sample Temperature: *10.0*



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 + TPH (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|-------------------------------------|----------------------|-------------------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------------------------------|------------------------|
| 8/21/12 | 0846 | SOIL | GS-PB#1 @ 23' - unknown release | 4 oz. - 1 | Cool | <i>208022</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |
| 8/24/12 | 1200 | SOIL | GS-ESW#1 @ 16' - unknown release | 4 oz. - 1 | Cool | <i>2002</i> | | | <input checked="" type="checkbox"/> | | | | | | | | | | <input checked="" type="checkbox"/> | |

| | | | | | |
|----------------------|-------------------|-------------------------------------|---------------------------------|-----------------------|-------------------|
| Date: <i>8/27/12</i> | Time: <i>0730</i> | Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Date: <i>8/27/12</i> | Time: <i>T:30</i> |
| Date: <i>8/27/12</i> | Time: <i>1100</i> | Relinquished by: <i>[Signature]</i> | Received by: <i>[Signature]</i> | Date: <i>08/28/12</i> | Time: <i>1000</i> |

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

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

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This carries no notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Chain-of-Custody Record

Turn-Around Time:

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

Standard Rush

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

Project Name: **GUTIERREZ GC B # 1**

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

Project #:

email or Fax#:

Project Manager:

QA/QC Package:

NELSON VELEZ

Standard Level 4 (Full Validation)

Accreditation:

Sampler: **NELSON VELEZ**

NELAP Other

On Ice: Yes No

EDD (Type)

Sample Temperature: **LD**



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 (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|--------------------------------|----------------------|-------------------|-----------------|-------------------------------------|-------------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------------------------------|------------------------|
| 9/17/12 | 0925 | SOIL | NWC @ 20' - unknown release | 4 oz. - 1 | Cool | 1209922 -001 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |
| 9/17/12 | 0930 | SOIL | WSW @ 22' - unknown release | 4 oz. - 1 | Cool | -002 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |
| 9/17/12 | 0938 | SOIL | SWC @ 21' - unknown release | 4 oz. - 1 | Cool | -003 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |
| 9/17/12 | 0945 | SOIL | SSW @ 19' - unknown release | 4 oz. - 1 | Cool | -004 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |

Date: 9/19/12 Time: 0700 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 9/19/12 Time: 820

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

Date: 9/19/12 Time: 1724 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 09/20/12 Time: 10:00

Send invoice to :

Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

If necessary, samples submitted to Hall Environmental may be subcontracted to other certified laboratories.

Chain-of-Custody Record

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

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

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

email or Fax#:

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

Turn-Around Time:
 Standard Rush

Project Name:
GUTIERREZ GC B # 1

Project #:

Project Manager:
NELSON VELEZ



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Accreditation:
 NELAP Other _____
 EDD (Type) _____

Sampler: **NELSON VELEZ** *NV*

On Ice: Yes No

Sample Temperature: *1.0*

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TPH (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|-----------------------------------|----------------------|-------------------|-------------------------|---------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------|------------------------|
| 9/20/12 | 0925 | SOIL | SSW #2 @ 23' - unknown release | 4 oz. - 1 | Cool | <i>12091322</i> -001 | ✓ | ✓ | | | | | | | | | | | ✓ | |
| 9/20/12 | 0939 | SOIL | SSW #3 @ 20' - unknown release | 4 oz. - 1 | Cool | -002 | ✓ | ✓ | | | | | | | | | | | ✓ | |
| 9/20/12 | 0943 | SOIL | SSW #4 @ 20' - unknown release | 4 oz. - 1 | Cool | -003 | ✓ | ✓ | | | | | | | | | | | ✓ | |

Date: *9/24/12* Time: *0800* Relinquished by: *[Signature]*

Date: *9/24/12* Time: *824* Received by: *[Signature]*

Date: *9/24/12* Time: *1724* Relinquished by: *[Signature]*

Date: *09/25/12* Time: *10:00* Received by: *[Signature]*

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

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

Chain-of-Custody Record

Turn-Around Time:

Standard Rush _____

Project Name:

GUTIERREZ GC B # 1

Project #:

Project Manager:

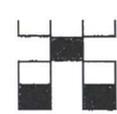
NELSON VELEZ

Sampler:

NELSON VELEZ *9/26*

On Ice: Yes No

Sample Temperature: *2.8°C*



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

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

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

email or Fax#:

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

Accreditation:
 NELAP Other _____
 EDD (Type) _____

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TMB's (8021B) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | Grab sample | 5 pt. composite sample |
|---------|------|--------|-----------------------------------|----------------------|-------------------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------------------------------|------------------------|
| 9/26/12 | 1114 | SOIL | SEC #4 @ 20' - unknown release | 4 oz. - 1 | Cool | <i>1710004</i> <i>-601</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |
| 9/26/12 | 1115 | SOIL | SEC #4 @ 21' - unknown release | 4 oz. - 1 | Cool | <i>200</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | |

| | | | | | |
|----------------------|-------------------|--|------------------------------------|----------------------|--------------------|
| Date: <i>9/28/12</i> | Time: <i>0745</i> | Relinquished by: <i>[Signature]</i> | Received by: <i>Christa Walter</i> | Date: <i>9/28/12</i> | Time: <i>805</i> |
| Date: <i>9/28/12</i> | Time: <i>1700</i> | Relinquished by: <i>Christa Walter</i> | Received by: <i>[Signature]</i> | Date: <i>9/29/12</i> | Time: <i>10:00</i> |

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

Send invoice to:

**Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This carries no notice of this possibility. Any such subcontracted data will be clearly marked on the report that report.

Chain-of-Custody Record

Turn-Around Time:

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

Standard Rush

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

Project Name:

BLOOMFIELD, NM 87413

GUTIERREZ GC B# 1

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

Project #:

email or Fax#:

Project Manager:

QA/QC Package:

NELSON VELEZ

Standard Level 4 (Full Validation)

Accreditation:

Sampler: **NELSON VELEZ** *90V*

NELAP Other

On Ice: Yes No

EDD (Type)

Sample Temperature: *10*



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX - MTBE - TMBE (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 , PO ₄ , SO ₄) | Total Dissolved Solids | Iron, Ferrous (filtered) | Nitrate N | Grab sample | 5 pt. composite sample | |
|---------|------|--------|-------------------|----------------------|--------------------------------|----------|----------------------------|------------------------------|-----------------------------|--------------------|--------------------|------------------------|---------------|--|------------------------|--------------------------|-----------|-------------|------------------------|--|
| 8/15/13 | 1315 | WATER | MW # 1 | 40 ml VOA - 2 | HCl & Cool | -001 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1315 | WATER | MW # 1 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1315 | WATER | MW # 1 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1315 | WATER | MW # 1 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |
| 8/15/13 | 1530 | WATER | MW # 2 | 40 ml VOA - 2 | HCl & Cool | -002 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1530 | WATER | MW # 2 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1530 | WATER | MW # 2 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1530 | WATER | MW # 2 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |
| 8/15/13 | 1445 | WATER | MW # 3 | 40 ml VOA - 2 | HCl & Cool | -003 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1445 | WATER | MW # 3 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1445 | WATER | MW # 3 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1445 | WATER | MW # 3 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |

Date: 8/15/13 Time: 1635 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 8/15/13 Time: 1635

Remarks: *pg. 1 of 2*

Date: 8/15/13 Time: 1721 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 08/16/13 Time: 1007

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

Chain-of-Custody Record

Turn-Around 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**

GUTIERREZ GC B# 1

BLOOMFIELD, NM 87413

Project #:

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

Analysis Request

email or Fax#:

Project Manager:

QA/QC Package:

NELSON VELEZ

Standard Level 4 (Full Validation)

Accreditation:

Sampler: **NELSON VELEZ**

NELAP Other

On Ice: Yes No

EDD (Type)

Sample Temperature: **10**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No | BTEX + MTBE + TMS (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 | |
|---------|------|--------|-------------------|----------------------|--------------------------------|---------|---------------------------|------------------------------|-----------------------------|--------------------|--------------------|------------------------|---------------|--|------------------------|--------------------------|-----------------------|-------------|------------------------|--|
| 8/15/13 | 1400 | WATER | MW # 4 | 40 ml VOA - 2 | HCl & Cool | -004 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1400 | WATER | MW # 4 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1400 | WATER | MW # 4 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1400 | WATER | MW # 4 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |
| 8/15/13 | 1140 | WATER | MW # 5 | 40 ml VOA - 2 | HCl & Cool | -005 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1140 | WATER | MW # 5 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1140 | WATER | MW # 5 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1140 | WATER | MW # 5 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |
| 8/15/13 | 1225 | WATER | MW # 6 | 40 ml VOA - 2 | HCl & Cool | -006 | ✓ | | | | | | | | | | | | ✓ | |
| 8/15/13 | 1225 | WATER | MW # 6 | 500 ml - 1 | Cool | | | | | | | | | ✓ | ✓ | | | | ✓ | |
| 8/15/13 | 1225 | WATER | MW # 6 | 125 ml - 1 | HNO ₃ & Cool | | | | | | | | | | | ✓ | | | ✓ | |
| 8/15/13 | 1225 | WATER | MW # 6 | 125 ml - 1 | H ₂ SO ₄ | | | | | | | | | | | | ✓ | | ✓ | |

Date: 8/15/13 Time: 1635 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 8/15/13 Time: 1635

Remarks: *pg. 2 of 2*

Date: 8/15/13 Time: 1721 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 08/16/13 Time: 1007

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

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

Chain-of-Custody Record

Turn-Around Time:

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

Standard Rush _____

Project Name:

JAQUEZ GC B # 3E

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

BLOOMFIELD, NM 87413

Project #:

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

Project Manager:

NELSON VELEZ

Email or Fax#:

A/QC Package:

Standard Level 4 (Full Validation)

Sampler: **NELSON VELEZ**

Accreditation:

NELAP Other _____

On Ice: Yes No

EDD (Type) _____

Sample Temperature: 1.0

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TMB's (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 | Nitrate N / Nitrite N | Manganese | Total Iron | Iron, Ferrous (filtered) | Anion / Cation Balance | Total Dissolved Solids | Grab sample | 5 pt. composite sample | Air Bubbles (Y or N) | |
|--------------------|-----------------|------------------|----------------------------------|-----------------------|---------------------------------------|---------------------------------------|-----------------------------|------------------------------|-----------------------------|--------------------|--------------------|------------------------|---------------|-----------------------|-----------|------------|--------------------------|------------------------|------------------------|-------------|------------------------|----------------------|--|
| 1/20/16 | 1210 | WATER | LP AGT PRODUCED WATER | 500 ml - 1 | Cool | 1601774 -001 | | | | | | | | | | | | | ✓ | ✓ | ✓ | | |
| 1/20/16 | 1210 | WATER | LP AGT PRODUCED WATER | 250 ml - 1 | HNO₃ & Cool | 1601774 -001 | | | | | | | | | | | | | | | | | |

Date: 1/20/16 Time: 1819 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 1/20/16 Time: 1815

Remarks: **Report sulfate only for anion / cation balance.**

Date: 1/20/16 Time: 1844 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 01/21/16 Time: 0815

BILL DIRECTLY TO BP:
200 Energy Court, Farmington, NM 87401 Attn.: S. Moskal
VID: VHIXONEVRM WBS Element: L1-00136-E:JAQUEZGCB3E



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206018

04-Jun-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|------------|------------------|----------------|-----------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-2183 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 2183 | RunNo: | 3153 | | | | | |
| Prep Date: | 5/31/2012 | Analysis Date: | 6/1/2012 | SeqNo: | 87137 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|-----------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-2183 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 2183 | RunNo: | 3153 | | | | | |
| Prep Date: | 5/31/2012 | Analysis Date: | 6/1/2012 | SeqNo: | 87138 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.6 | 90 | 110 | | | |

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206018
04-Jun-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| Sample ID: MB-2197 | SampType: MBLK | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 2197 | RunNo: 3139 | | | | | | | | |
| Prep Date: 6/1/2012 | Analysis Date: 6/1/2012 | SeqNo: 87007 | 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 | 11 | | 10.00 | | 109 | 82.1 | 121 | | | |

| Sample ID: LCS-2197 | SampType: LCS | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 2197 | RunNo: 3139 | | | | | | | | |
| Prep Date: 6/1/2012 | Analysis Date: 6/1/2012 | SeqNo: 87008 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 39 | 10 | 50.00 | 0 | 78.1 | 52.6 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.8 | 82.1 | 121 | | | |

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206018

04-Jun-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID: 5mL rb | SampType: MBLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R3160 | RunNo: 3160 | | | | | | | | |
| Prep Date: | Analysis Date: 6/1/2012 | SeqNo: 87250 | 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 | 0.42 | | 0.5000 | | 84.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 97.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.43 | | 0.5000 | | 85.5 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.46 | | 0.5000 | | 91.9 | 70 | 130 | | | |

| Sample ID: 100ng lcs | SampType: LCS | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R3160 | RunNo: 3160 | | | | | | | | |
| Prep Date: | Analysis Date: 6/1/2012 | SeqNo: 87251 | 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 | 105 | 70.7 | 123 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 98.0 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.42 | | 0.5000 | | 83.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.47 | | 0.5000 | | 95.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.43 | | 0.5000 | | 86.8 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.42 | | 0.5000 | | 84.7 | 70 | 130 | | | |

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206018
04-Jun-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| Sample ID | 5mL rb | SampType: | MBLK | TestCode: | EPA Method 8015B Mod: Gasoline Range | | | | | |
|-------------------------------|---------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | R3160 | RunNo: | 3160 | | | | | |
| Prep Date: | | Analysis Date: | 6/1/2012 | SeqNo: | 87267 | 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 | 490 | | 500.0 | | 97.7 | 70 | 130 | | | |

| Sample ID | 2.5ug gro lcs | SampType: | LCS | TestCode: | EPA Method 8015B Mod: Gasoline Range | | | | | |
|-------------------------------|----------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | R3160 | RunNo: | 3160 | | | | | |
| Prep Date: | | Analysis Date: | 6/1/2012 | SeqNo: | 87268 | 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 | 108 | 85 | 115 | | | |
| Surr: BFB | 490 | | 500.0 | | 97.4 | 70 | 130 | | | |

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1206018**

Received by/date: **AG** **06/01/12**
 Logged By: **Michelle Garcia** **6/1/2012 10:05:00 AM** *Michelle Garcia*
 Completed By: **Michelle Garcia** **6/1/2012 10:14:00 AM** *Michelle Garcia*
 Reviewed By: **06/01/12**

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH:
- 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes No Adjusted?
- 16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No Checked by:

Special Handling (if applicable)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-3423 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141603 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-3423 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141604 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.7 | 90 | 110 | | | |

| | | | | | | | | | | |
|------------|-----------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1208829-008AMS | SampType: | MS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141627 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 36 | 7.5 | 15.00 | 18.31 | 116 | 64.4 | 117 | | | |

| | | | | | | | | | | |
|------------|------------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1208829-008AMSD | SampType: | MSD | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141628 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 31 | 7.5 | 15.00 | 18.31 | 87.4 | 64.4 | 117 | 13.0 | 20 | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-3444 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 3444 | RunNo: | 5039 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142802 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-3444 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 3444 | RunNo: | 5039 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142803 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.4 | 90 | 110 | | | |

| | | | | | | | | | | |
|------------|-----------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1208919-001BMS | SampType: | MS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3444 | RunNo: | 5039 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142810 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 15 | 15.00 | 3.992 | 69.5 | 64.4 | 117 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | 1208919-001BMSD | SampType: | MSD | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3444 | RunNo: | 5039 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142811 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 15 | 15.00 | 3.992 | 69.7 | 64.4 | 117 | 0 | 20 | |

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-3411 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3411 | RunNo: | 4989 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141274 | 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 | 11 | | 10.00 | | 112 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-3411 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3411 | RunNo: | 4989 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141294 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 40 | 10 | 50.00 | 0 | 79.5 | 52.6 | 130 | | | |
| Surr: DNOP | 4.1 | | 5.000 | | 82.9 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-3438 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3438 | RunNo: | 5017 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142066 | 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 | 11 | | 10.00 | | 112 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-3438 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3438 | RunNo: | 5017 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142334 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 37 | 10 | 50.00 | 0 | 73.1 | 52.6 | 130 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.2 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | 1208857-001AMS | SampType: | MS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | Batch ID: | 3438 | RunNo: | 5044 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/23/2012 | SeqNo: | 143789 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 39 | 9.9 | 49.70 | 0 | 78.9 | 57.2 | 146 | | | |
| Surr: DNOP | 4.6 | | 4.970 | | 93.0 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------------|----------------|------------------|-------------|--|----------|--------------|-------|----------|------|
| Sample ID | 1208857-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | Batch ID: | 3438 | RunNo: | 5044 | | | | | |
| Prep Date: | 8/22/2012 | Analysis Date: | 8/23/2012 | SeqNo: | 143790 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 39 | 10 | 50.00 | 0 | 78.6 | 57.2 | 146 | 0.154 | 24.5 | |
| Surr: DNOP | 4.1 | | 5.000 | | 81.7 | 77.6 | 140 | 0 | 0 | |

Qualifiers:

- | | |
|--|---|
| 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 | 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#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-3410 | SampType: | MBLK | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142179 | 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 | 960 | | 1000 | | 96.1 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-3410 | SampType: | LCS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142180 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 85.4 | 74 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1208821-001AMS | SampType: | MS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142302 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 92 | 19 | 24.08 | 5.875 | 356 | 70 | 130 | | | S |
| Surr: BFB | 4300 | | 3854 | | 111 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | 1208821-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 142303 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 110 | 19 | 23.67 | 5.875 | 427 | 70 | 130 | 15.5 | 22.1 | S |
| Surr: BFB | 4200 | | 3788 | | 112 | 84 | 116 | 0 | 0 | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-3428 | SampType: | MBLK | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143036 | 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 | 970 | | 1000 | | 97.4 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-3428 | SampType: | LCS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143037 | 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 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 99.9 | 84 | 116 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877
29-Aug-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| Sample ID | 1208857-001AMS | SampType: | MS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
|-------------------------------|----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143040 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 4.9 | 24.49 | 0 | 92.7 | 70 | 130 | | | |
| Surr: BFB | 990 | | 979.4 | | 101 | 84 | 116 | | | |

| Sample ID | 1208857-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
|-------------------------------|-----------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143041 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 4.9 | 24.39 | 0 | 89.4 | 70 | 130 | 4.08 | 22.1 | |
| Surr: BFB | 1000 | | 975.6 | | 102 | 84 | 116 | 0 | 0 | |

Qualifiers:

- | | | | |
|----|--|---|---|
| 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 | 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#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID | MB-3410 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142255 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | |

| Sample ID | LCS-3410 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142267 | 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 | 99.2 | 76.3 | 117 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 77 | 116 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 105 | 80 | 120 | | | |

| Sample ID | 1208787-001AMS | SampType: | MS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142299 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.047 | 0.9488 | 0 | 102 | 67.2 | 113 | | | |
| Toluene | 1.0 | 0.047 | 0.9488 | 0 | 106 | 62.1 | 116 | | | |
| Ethylbenzene | 1.0 | 0.047 | 0.9488 | 0 | 108 | 67.9 | 127 | | | |
| Xylenes, Total | 3.1 | 0.095 | 2.846 | 0 | 110 | 60.6 | 134 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9488 | | 105 | 80 | 120 | | | |

| Sample ID | 1208787-001AMSD | SampType: | MSD | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|-------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 4995 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142300 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.047 | 0.9346 | 0 | 102 | 67.2 | 113 | 1.51 | 14.3 | |
| Toluene | 1.0 | 0.047 | 0.9346 | 0 | 108 | 62.1 | 116 | 0.335 | 15.9 | |
| Ethylbenzene | 1.1 | 0.047 | 0.9346 | 0 | 113 | 67.9 | 127 | 3.07 | 14.4 | |
| Xylenes, Total | 3.2 | 0.093 | 2.804 | 0 | 113 | 60.6 | 134 | 1.67 | 12.6 | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 0.9346 | | 105 | 80 | 120 | 0 | 0 | |

Qualifiers:

- | | | | |
|----|--|---|---|
| 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 | 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#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-3428 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143050 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-3428 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 3428 | RunNo: | 5025 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/22/2012 | SeqNo: | 143051 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.050 | 1.000 | 0 | 96.2 | 76.3 | 117 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 98.9 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.7 | 77 | 116 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

Qualifiers:

- | | | | |
|----|--|---|---|
| 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 | 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#: 1208877

29-Aug-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID | mb-3410 | SampType: | MBLK | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 3410 | RunNo: | 5021 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142159 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.5000 | | 92.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.41 | | 0.5000 | | 81.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.40 | | 0.5000 | | 80.9 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.40 | | 0.5000 | | 79.1 | 70 | 130 | | | |

| Sample ID | ics-3410 | SampType: | LCS | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 3410 | RunNo: | 5021 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142161 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.45 | | 0.5000 | | 90.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.42 | | 0.5000 | | 84.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.44 | | 0.5000 | | 88.1 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.39 | | 0.5000 | | 78.9 | 70 | 130 | | | |

| Sample ID | 1208821-002ams | SampType: | MS | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|-----------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 5021 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142162 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.4859 | | 89.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.40 | | 0.4859 | | 83.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.43 | | 0.4859 | | 87.9 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.37 | | 0.4859 | | 76.1 | 70 | 130 | | | |

| Sample ID | 1208821-002amsd | SampType: | MSD | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | BatchQC | Batch ID: | 3410 | RunNo: | 5021 | | | | | |
| Prep Date: | 8/20/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 142163 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.42 | | 0.4583 | | 92.3 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.39 | | 0.4583 | | 84.8 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.41 | | 0.4583 | | 89.5 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.35 | | 0.4583 | | 77.3 | 70 | 130 | 0 | 0 | |

Qualifiers:

- | | | | |
|----|--|---|---|
| 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 | R | RPD outside accepted recovery limits |
| RL | Reporting Detection Limit | S | Spike Recovery outside accepted recovery limits |



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4101
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGO** Work Order Number: 1208877
 Received by/date: [Signature] 08/21/12
 Logged By: **Ashley Gallegos** 8/21/2012 10:31:00 AM [Signature]
 Completed By: **Ashley Gallegos** 8/21/2012 10:43:35 AM [Signature]
 Reviewed By: [Signature] 08/21/12

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. 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)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208C22

05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: MB-3536 | SampType: MBLK | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3536 | RunNo: 5191 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 147637 | 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 | 11 | | 10.00 | | 111 | 77.6 | 140 | | | |

| Sample ID: LCS-3536 | SampType: LCS | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3536 | RunNo: 5191 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 147697 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 36 | 10 | 50.00 | 0 | 71.0 | 52.6 | 130 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.5 | 77.6 | 140 | | | |

| Sample ID: 1208C19-001AMS | SampType: MS | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 3536 | RunNo: 5191 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 147930 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 36 | 9.8 | 49.02 | 0 | 73.5 | 57.2 | 146 | | | |
| Surr: DNOP | 4.4 | | 4.902 | | 90.6 | 77.6 | 140 | | | |

| Sample ID: 1208C19-001AMSD | SampType: MSD | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 3536 | RunNo: 5191 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 147968 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 37 | 9.7 | 48.54 | 0 | 75.9 | 57.2 | 146 | 2.21 | 24.5 | |
| Surr: DNOP | 4.3 | | 4.854 | | 88.6 | 77.6 | 140 | 0 | 0 | |

Qualifiers:

- | | |
|--|---|
| 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 | 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#: 1208C22

05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: MB-3529 | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148958 | | | 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 | 980 | | 1000 | | 97.8 | 84 | 116 | | | |

| Sample ID: LCS-3529 | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148959 | | | 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 | 96.3 | 74 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 84 | 116 | | | |

Qualifiers:

- | | |
|--|---|
| 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 | 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#: 1208C22
05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: MB-3529 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148983 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

| Sample ID: LCS-3529 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148984 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.050 | 1.000 | 0 | 95.9 | 76.3 | 117 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.6 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 77 | 116 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID: 1208C19-001AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148988 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.99 | 0.047 | 0.9363 | 0 | 106 | 67.2 | 113 | | | |
| Toluene | 1.0 | 0.047 | 0.9363 | 0 | 111 | 62.1 | 116 | | | |
| Ethylbenzene | 1.1 | 0.047 | 0.9363 | 0.003486 | 116 | 67.9 | 127 | | | |
| Xylenes, Total | 3.3 | 0.094 | 2.809 | 0 | 117 | 60.6 | 134 | | | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 0.9363 | | 105 | 80 | 120 | | | |

| Sample ID: 1208C19-001AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: BatchQC | Batch ID: 3529 | RunNo: 5215 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/30/2012 | SeqNo: 148989 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.048 | 0.9653 | 0 | 107 | 67.2 | 113 | 4.13 | 14.3 | |
| Toluene | 1.1 | 0.048 | 0.9653 | 0 | 111 | 62.1 | 116 | 2.16 | 15.9 | |
| Ethylbenzene | 1.1 | 0.048 | 0.9653 | 0.003486 | 113 | 67.9 | 127 | 0.732 | 14.4 | |
| Xylenes, Total | 3.3 | 0.097 | 2.896 | 0 | 115 | 60.6 | 134 | 1.15 | 12.6 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9653 | | 105 | 80 | 120 | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208C22
05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: 1208c20-001ams | SampType: MS | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
|----------------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 3529 | RunNo: 5213 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/31/2012 | SeqNo: 148801 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.41 | | 0.4950 | | 82.0 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.40 | | 0.4950 | | 81.5 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.46 | | 0.4950 | | 93.0 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.35 | | 0.4950 | | 71.4 | 70 | 130 | | | |

| Sample ID: 1208c20-001amsd | SampType: MSD | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
|-----------------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 3529 | RunNo: 5213 | | | | | | | | |
| Prep Date: 8/29/2012 | Analysis Date: 8/31/2012 | SeqNo: 148804 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.40 | | 0.4912 | | 82.1 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.39 | | 0.4912 | | 79.8 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.44 | | 0.4912 | | 88.9 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.37 | | 0.4912 | | 76.0 | 70 | 130 | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208C22
05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: 5ml-rb | SampType: MBLK | TestCode: EPA Method 8260: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R5213 | RunNo: 5213 | | | | | | | | |
| Prep Date: | Analysis Date: 8/30/2012 | SeqNo: 148266 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 8.2 | | 10.00 | | 81.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 8.4 | | 10.00 | | 84.3 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 7.9 | | 10.00 | | 79.5 | 70 | 130 | | | |
| Surr: Toluene-d8 | 8.5 | | 10.00 | | 84.7 | 70 | 130 | | | |

| Sample ID: 100ng lcs | SampType: LCS | TestCode: EPA Method 8260: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSW | Batch ID: R5213 | RunNo: 5213 | | | | | | | | |
| Prep Date: | Analysis Date: 8/30/2012 | SeqNo: 148267 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 8.5 | | 10.00 | | 84.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 8.6 | | 10.00 | | 85.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.6 | | 10.00 | | 96.3 | 70 | 130 | | | |
| Surr: Toluene-d8 | 8.2 | | 10.00 | | 82.5 | 70 | 130 | | | |

Qualifiers:

- | | |
|--|---|
| 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 | 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#: 1208C22

05-Sep-12

Client: Blagg Engineering
Project: GUTIERREZ GC B #1

| Sample ID: 1208a02-003a ms | SampType: MS | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
|-----------------------------|--------------------------|---------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: R5213 | RunNo: 5213 | | | | | | | | |
| Prep Date: | Analysis Date: 8/30/2012 | SeqNo: 148677 Units: %REC | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 8.5 | | 10.00 | | 85.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 8.2 | | 10.00 | | 82.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 8.1 | | 10.00 | | 81.3 | 70 | 130 | | | |
| Surr: Toluene-d8 | 8.4 | | 10.00 | | 84.3 | 70 | 130 | | | |

| Sample ID: 1208a02-003a msd | SampType: MSD | TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
|-----------------------------|--------------------------|---------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: R5213 | RunNo: 5213 | | | | | | | | |
| Prep Date: | Analysis Date: 8/30/2012 | SeqNo: 148678 Units: %REC | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 8.9 | | 10.00 | | 89.0 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 8.6 | | 10.00 | | 86.4 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 9.1 | | 10.00 | | 91.5 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 8.4 | | 10.00 | | 84.1 | 70 | 130 | 0 | 0 | |

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-410;
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1208C22
 Received by/date: AG 08/28/12
 Logged By: **Anne Thorne** 8/28/2012 10:00:00 AM *Anne Thorne*
 Completed By: **Anne Thorne** 8/28/2012 *Anne Thorne*
 Reviewed By: IO 08/28/12

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. VOA vials have zero headspace? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. 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)

17. 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: | _____ | | |

18. Additional remarks:

19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.6 | Good | Yes | | | |

QC SUMMARY REPORT

WO#: 1209870

Hall Environmental Analysis Laboratory, Inc.

24-Sep-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-3843 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3843 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 162084 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 106 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-3853 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3853 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 162085 | 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 | 11 | | 10.00 | | 107 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-3843 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3843 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 162086 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 89.0 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-3853 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3853 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 162087 | 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 | 52.6 | 130 | | | |
| Surr: DNOP | 4.2 | | 5.000 | | 84.9 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-3852 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3852 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 163485 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 12 | | 10.00 | | 120 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-3852 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3852 | RunNo: | 5660 | | | | | |
| Prep Date: | 9/20/2012 | Analysis Date: | 9/21/2012 | SeqNo: | 163486 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 87.8 | 77.6 | 140 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870
24-Sep-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-3891 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3891 | RunNo: | 5709 | | | | | |
| Prep Date: | 9/24/2012 | Analysis Date: | 9/24/2012 | SeqNo: | 164194 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 11 | | 10.00 | | 108 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-3891 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3891 | RunNo: | 5709 | | | | | |
| Prep Date: | 9/24/2012 | Analysis Date: | 9/24/2012 | SeqNo: | 164208 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.5 | | 5.000 | | 90.7 | 77.6 | 140 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870

24-Sep-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID: 5ML RB | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R5667 | RunNo: 5667 | | | | | | | | |
| Prep Date: | Analysis Date: 9/20/2012 | SeqNo: 162320 | 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 | 1000 | | 1000 | | 101 | 84 | 116 | | | |

| Sample ID: 2.5UG GRO LCS | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|---------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R5667 | RunNo: 5667 | | | | | | | | |
| Prep Date: | Analysis Date: 9/20/2012 | SeqNo: 162321 | 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 | 102 | 74 | 117 | | | |
| Surr: BFB | 1100 | | 1000 | | 105 | 84 | 116 | | | |

| Sample ID: MB-3832 | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3832 | RunNo: 5667 | | | | | | | | |
| Prep Date: 9/19/2012 | Analysis Date: 9/20/2012 | SeqNo: 162327 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 100 | 84 | 116 | | | |

| Sample ID: LCS-3832 | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3832 | RunNo: 5667 | | | | | | | | |
| Prep Date: 9/19/2012 | Analysis Date: 9/20/2012 | SeqNo: 162328 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 105 | 84 | 116 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870

24-Sep-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID: 5ML RB | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R5667 | RunNo: 5667 | | | | | | | | |
| Prep Date: | Analysis Date: 9/20/2012 | SeqNo: 162348 | 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 | | 99.8 | 80 | 120 | | | |

| Sample ID: 100NG BTEX LCS | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R5667 | RunNo: 5667 | | | | | | | | |
| Prep Date: | Analysis Date: 9/20/2012 | SeqNo: 162349 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.050 | 1.000 | 0 | 95.9 | 76.3 | 117 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 97.0 | 80 | 120 | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 98.2 | 77 | 116 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 98.6 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID: MB-3832 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3832 | RunNo: 5667 | | | | | | | | |
| Prep Date: 9/19/2012 | Analysis Date: 9/20/2012 | SeqNo: 162351 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID: LCS-3832 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3832 | RunNo: 5667 | | | | | | | | |
| Prep Date: 9/19/2012 | Analysis Date: 9/20/2012 | SeqNo: 162352 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1209870
 Received by/date: ABH 09/20/12
 Logged By: **Michelle Garcia** 9/20/2012 10:00:00 AM *Michelle Garcia*
 Completed By: **Michelle Garcia** 9/20/2012 10:07:34 AM *Michelle Garcia*
 Reviewed By: [Signature] 09/20/12

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. 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)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209922

02-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-3882 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 3882 | RunNo: | 5697 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 9/23/2012 | SeqNo: | 163829 | 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 | 11 | | 10.00 | | 109 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-3882 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 3882 | RunNo: | 5697 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 9/23/2012 | SeqNo: | 163830 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 35 | 10 | 50.00 | 0 | 69.6 | 52.6 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.5 | 77.6 | 140 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

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

QC SUMMARY REPORT

WO#: 1209922

Hall Environmental Analysis Laboratory, Inc.

02-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-3879 | SampType: | MBLK | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 3879 | RunNo: | 5692 | | | | | |
| Prep Date: | 9/21/2012 | Analysis Date: | 9/22/2012 | SeqNo: | 163520 | 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 | 980 | | 1000 | | 98.2 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-3879 | SampType: | LCS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 3879 | RunNo: | 5692 | | | | | |
| Prep Date: | 9/21/2012 | Analysis Date: | 9/22/2012 | SeqNo: | 163521 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 93.2 | 74 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 84 | 116 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-3881 | SampType: | MBLK | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 3881 | RunNo: | 5824 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 9/27/2012 | SeqNo: | 167530 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 990 | | 1000 | | 99.3 | 84 | 116 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-3881 | SampType: | LCS | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 3881 | RunNo: | 5824 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 9/27/2012 | SeqNo: | 167531 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 104 | 84 | 116 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209922

02-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID MB-3879 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3879 | RunNo: 5692 | | | | | | | | |
| Prep Date: 9/21/2012 | Analysis Date: 9/22/2012 | SeqNo: 163543 | 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 | | 99.9 | 80 | 120 | | | |

| Sample ID LCS-3879 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3879 | RunNo: 5692 | | | | | | | | |
| Prep Date: 9/21/2012 | Analysis Date: 9/22/2012 | SeqNo: 163544 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.050 | 1.000 | 0 | 96.0 | 76.3 | 117 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 97.3 | 80 | 120 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 98.6 | 77 | 116 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.3 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| Sample ID MB-3881 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3881 | RunNo: 5783 | | | | | | | | |
| Prep Date: 9/22/2012 | Analysis Date: 9/26/2012 | SeqNo: 166796 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 99.7 | 80 | 120 | | | |

| Sample ID LCS-3881 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3881 | RunNo: 5783 | | | | | | | | |
| Prep Date: 9/22/2012 | Analysis Date: 9/26/2012 | SeqNo: 166797 | Units: %REC | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1209922**
 Received by/date: AG 09/20/12
 Logged By: **Lindsay Mangin** 9/20/2012 10:00:00 AM *[Signature]*
 Completed By: **Lindsay Mangin** 9/21/2012 9:00:29 AM *[Signature]*
 Reviewed By: *[Signature]* IO 09/21/12

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. 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)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22
03-Oct-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| Sample ID MB-3948 | SampType: MBLK | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3948 | RunNo: 5796 | | | | | | | | |
| Prep Date: 9/26/2012 | Analysis Date: 9/27/2012 | SeqNo: 166783 | 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 | 11 | | 10.00 | | 108 | 77.6 | 140 | | | |

| Sample ID LCS-3948 | SampType: LCS | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3948 | RunNo: 5796 | | | | | | | | |
| Prep Date: 9/26/2012 | Analysis Date: 9/27/2012 | SeqNo: 166784 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 40 | 10 | 50.00 | 0 | 79.8 | 52.6 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.0 | 77.6 | 140 | | | |

Qualifiers:

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

QC SUMMARY REPORT

WO#: 1209B22

Hall Environmental Analysis Laboratory, Inc.

03-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID MB-3940 | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3940 | RunNo: 5841 | | | | | | | | |
| Prep Date: 9/26/2012 | Analysis Date: 9/29/2012 | SeqNo: 168217 | | | 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 | 980 | | 1000 | | 98.4 | 84 | 116 | | | |

| Sample ID LCS-3940 | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3940 | RunNo: 5841 | | | | | | | | |
| Prep Date: 9/26/2012 | Analysis Date: 9/29/2012 | SeqNo: 168218 | | | 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 | 97.8 | 74 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 105 | 84 | 116 | | | |

| Sample ID MB-3969 | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 3969 | RunNo: 5856 | | | | | | | | |
| Prep Date: 9/27/2012 | Analysis Date: 9/29/2012 | SeqNo: 168356 | | | Units: %REC | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 980 | | 1000 | | 98.4 | 84 | 116 | | | |

| Sample ID LCS-3969 | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 3969 | RunNo: 5856 | | | | | | | | |
| Prep Date: 9/27/2012 | Analysis Date: 9/29/2012 | SeqNo: 168357 | | | Units: %REC | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 103 | 84 | 116 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

03-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-3940 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 3940 | RunNo: | 5841 | | | | | |
| Prep Date: | 9/26/2012 | Analysis Date: | 9/29/2012 | SeqNo: | 168236 | 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 | 0.98 | | 1.000 | | 98.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-3940 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 3940 | RunNo: | 5841 | | | | | |
| Prep Date: | 9/26/2012 | Analysis Date: | 9/29/2012 | SeqNo: | 168237 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.050 | 1.000 | 0 | 89.6 | 76.3 | 117 | | | |
| Toluene | 0.89 | 0.050 | 1.000 | 0 | 89.1 | 80 | 120 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 90.8 | 77 | 116 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 91.4 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID | MB-3969 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 3969 | RunNo: | 5856 | | | | | |
| Prep Date: | 9/27/2012 | Analysis Date: | 9/29/2012 | SeqNo: | 168386 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.6 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Sample ID | LCS-3969 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 3969 | RunNo: | 5856 | | | | | |
| Prep Date: | 9/27/2012 | Analysis Date: | 9/29/2012 | SeqNo: | 168387 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 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
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

03-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID | mb-3940 | SampType: | MBLK | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 3940 | RunNo: | 5874 | | | | | |
| Prep Date: | 9/26/2012 | Analysis Date: | 9/30/2012 | SeqNo: | 169090 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.43 | | 0.5000 | | 86.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.38 | | 0.5000 | | 75.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.36 | | 0.5000 | | 71.4 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.36 | | 0.5000 | | 72.9 | 70 | 130 | | | |

| Sample ID | ics-3940 | SampType: | LCS | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 3940 | RunNo: | 5874 | | | | | |
| Prep Date: | 9/26/2012 | Analysis Date: | 9/30/2012 | SeqNo: | 169092 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.43 | | 0.5000 | | 86.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.38 | | 0.5000 | | 76.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 110 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.37 | | 0.5000 | | 73.5 | 70 | 130 | | | |

| Sample ID | mb-3969 | SampType: | MBLK | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 3969 | RunNo: | 5909 | | | | | |
| Prep Date: | 9/27/2012 | Analysis Date: | 10/1/2012 | SeqNo: | 170213 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.42 | | 0.5000 | | 84.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.40 | | 0.5000 | | 79.5 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.35 | | 0.5000 | | 71.0 | 70 | 130 | | | |

| Sample ID | ics-3969 | SampType: | LCS | TestCode: | EPA Method 8260B: VOLATILES | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 3969 | RunNo: | 5909 | | | | | |
| Prep Date: | 9/27/2012 | Analysis Date: | 10/1/2012 | SeqNo: | 170214 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.5000 | | 88.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.39 | | 0.5000 | | 78.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.40 | | 0.5000 | | 79.2 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.36 | | 0.5000 | | 72.3 | 70 | 130 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

03-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | mb-3881 | SampType: | MBLK | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
| Client ID: | PBS | Batch ID: | 3881 | RunNo: | 5909 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 10/1/2012 | SeqNo: | 170206 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.5000 | | 88.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.38 | | 0.5000 | | 76.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.41 | | 0.5000 | | 81.2 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.36 | | 0.5000 | | 72.6 | 70 | 130 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-3881 | SampType: | LCS | TestCode: | EPA Method 8260B: Volatiles Short List | | | | | |
| Client ID: | LCSS | Batch ID: | 3881 | RunNo: | 5909 | | | | | |
| Prep Date: | 9/22/2012 | Analysis Date: | 10/1/2012 | SeqNo: | 170207 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.5000 | | 87.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.39 | | 0.5000 | | 78.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.37 | | 0.5000 | | 73.2 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

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



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87106
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1209B22**

Received by/date: **MG** **09/25/12**
 Logged By: **Lindsay Mangin** **9/25/2012 10:00:00 AM** *Judy Mangin*
 Completed By: **Lindsay Mangin** **9/25/2012 3:29:21 PM** *Judy Mangin*
 Reviewed By: *[Signature]* **09/26/12**

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH:
- 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes No Adjusted?
- 16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No Checked by:

Special Handling (if applicable)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210004

09-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-4019 | SampType: | MBLK | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 4019 | RunNo: | 5904 | | | | | |
| Prep Date: | 10/1/2012 | Analysis Date: | 10/2/2012 | SeqNo: | 170131 | 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 | 11 | | 10.00 | | 106 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-4019 | SampType: | LCS | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 4019 | RunNo: | 5904 | | | | | |
| Prep Date: | 10/1/2012 | Analysis Date: | 10/2/2012 | SeqNo: | 170132 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 84.2 | 52.6 | 130 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.0 | 77.6 | 140 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210004

09-Oct-12

Client: Blagg Engineering

Project: Gutierrez GC B #1

| Sample ID MB-4015 | SampType: MBLK | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 4015 | RunNo: 6019 | | | | | | | | |
| Prep Date: 10/1/2012 | Analysis Date: 10/5/2012 | SeqNo: 173412 | | | 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 | 1000 | | 1000 | | 100 | 84 | 116 | | | |

| Sample ID LCS-4015 | SampType: LCS | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 4015 | RunNo: 6019 | | | | | | | | |
| Prep Date: 10/1/2012 | Analysis Date: 10/5/2012 | SeqNo: 173413 | | | 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 | 101 | 74 | 117 | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 84 | 116 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210004
09-Oct-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

| Sample ID | MB-4015 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 4015 | RunNo: | 5980 | | | | | |
| Prep Date: | 10/1/2012 | Analysis Date: | 10/4/2012 | SeqNo: | 172741 | 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-4015 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 4015 | RunNo: | 5980 | | | | | |
| Prep Date: | 10/1/2012 | Analysis Date: | 10/4/2012 | SeqNo: | 172742 | 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 | 76.3 | 117 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 105 | 77 | 116 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 105 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1210004
 Received by/date: AF 09/29/12
 Logged By: **Lindsay Mangin** 9/29/2012 10:00:00 AM *[Signature]*
 Completed By: **Lindsay Mangin** 10/1/2012 4:58:12 AM *[Signature]*
 Reviewed By: *[Signature]* 10/01/12

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. 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)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.8 | Good | Yes | | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308729

27-Aug-13

Client: Blagg Engineering

Project: Gutierrez GC B#1

| | | | | | | | | | | |
|------------|------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB | SampType: | MBLK | TestCode: | EPA Method 200.7: Dissolved Metals | | | | | |
| Client ID: | PBW | Batch ID: | R12837 | RunNo: | 12837 | | | | | |
| Prep Date: | | Analysis Date: | 8/22/2013 | SeqNo: | 365905 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | ND | 0.020 | | | | | | | | |

| | | | | | | | | | | |
|------------|-------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS | SampType: | LCS | TestCode: | EPA Method 200.7: Dissolved Metals | | | | | |
| Client ID: | LCSW | Batch ID: | R12837 | RunNo: | 12837 | | | | | |
| Prep Date: | | Analysis Date: | 8/22/2013 | SeqNo: | 365906 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 0.50 | 0.020 | 0.5000 | 0 | 99.9 | 85 | 115 | | | |

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#: 1308729

27-Aug-13

Client: Blagg Engineering

Project: Gutierrez GC B#1

| Sample ID MB | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|--------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R12706 | RunNo: 12706 | | | | | | | | |
| Prep Date: | Analysis Date: 8/16/2013 | SeqNo: 361749 | | | 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: R12706 | RunNo: 12706 | | | | | | | | |
| Prep Date: | Analysis Date: 8/16/2013 | SeqNo: 361750 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.48 | 0.10 | 0.5000 | 0 | 96.0 | 90 | 110 | | | |
| Chloride | 4.6 | 0.50 | 5.000 | 0 | 92.7 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.3 | 0.10 | 2.500 | 0 | 93.4 | 90 | 110 | | | |

| Sample ID 1308730-001AMS | SampType: MS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|---------------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: R12706 | RunNo: 12706 | | | | | | | | |
| Prep Date: | Analysis Date: 8/16/2013 | SeqNo: 361766 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 1.3 | 0.10 | 0.5000 | 0.7902 | 93.0 | 76.9 | 114 | | | |
| Chloride | 9.2 | 0.50 | 5.000 | 4.141 | 101 | 89.9 | 119 | | | |

| Sample ID 1308730-001AMSD | SampType: MSD | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|-------|----------|------|
| Client ID: BatchQC | Batch ID: R12706 | RunNo: 12706 | | | | | | | | |
| Prep Date: | Analysis Date: 8/16/2013 | SeqNo: 361767 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 1.3 | 0.10 | 0.5000 | 0.7902 | 95.2 | 76.9 | 114 | 0.865 | 20 | |
| Chloride | 9.2 | 0.50 | 5.000 | 4.141 | 102 | 89.9 | 119 | 0.342 | 20 | |

| Sample ID MB | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------|---------------------------------|---|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R12777 | RunNo: 12777 | | | | | | | | |
| Prep Date: | Analysis Date: 8/20/2013 | SeqNo: 364260 | | | Units: mg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | ND | 0.50 | | | | | | | | |

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#: 1308729

27-Aug-13

Client: Blagg Engineering

Project: Gutierrez GC B#1

| | | | | | | | | | | |
|------------|--------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSW | Batch ID: | R12777 | RunNo: | 12777 | | | | | |
| Prep Date: | | Analysis Date: | 8/20/2013 | SeqNo: | 364261 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | 9.3 | 0.50 | 10.00 | 0 | 93.4 | 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#: 1308729

27-Aug-13

Client: Blagg Engineering

Project: Gutierrez GC B#1

| Sample ID: 5ML RB | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBW | Batch ID: R12735 | RunNo: 12735 | | | | | | | | |
| Prep Date: | Analysis Date: 8/19/2013 | SeqNo: 362592 | | | 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 | 21 | | 20.00 | | 105 | 69.4 | 129 | | | |

| Sample ID: 100NG BTEX LCS | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSW | Batch ID: R12735 | RunNo: 12735 | | | | | | | | |
| Prep Date: | Analysis Date: 8/19/2013 | SeqNo: 362593 | | | Units: µg/L | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 20 | 1.0 | 20.00 | 0 | 98.9 | 80 | 120 | | | |
| Toluene | 20 | 1.0 | 20.00 | 0 | 99.8 | 80 | 120 | | | |
| Ethylbenzene | 20 | 1.0 | 20.00 | 0 | 99.3 | 80 | 120 | | | |
| Xylenes, Total | 60 | 2.0 | 60.00 | 0 | 99.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 21 | | 20.00 | | 106 | 69.4 | 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#: 1308729

27-Aug-13

Client: Blagg Engineering

Project: Gutierrez GC B#1

| | | | | | | | | | | |
|------------------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-8911 | SampType: | MBLK | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | PBW | Batch ID: | 8911 | RunNo: | 12778 | | | | | |
| Prep Date: | 8/19/2013 | Analysis Date: | 8/21/2013 | SeqNo: | 364355 | 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-8911 | SampType: | LCS | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | LCSW | Batch ID: | 8911 | RunNo: | 12778 | | | | | |
| Prep Date: | 8/19/2013 | Analysis Date: | 8/21/2013 | SeqNo: | 364356 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 1020 | 20.0 | 1000 | 0 | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------------------|-----------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | 1308716-009AMS | SampType: | MS | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | BatchQC | Batch ID: | 8911 | RunNo: | 12778 | | | | | |
| Prep Date: | 8/19/2013 | Analysis Date: | 8/21/2013 | SeqNo: | 364363 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 4920 | 40.0 | 2000 | 2840 | 104 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------------------|------------------------|----------------|------------------|-------------|--|----------|-------------|-------|----------|------|
| Sample ID | 1308716-009AMSD | SampType: | MSD | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | BatchQC | Batch ID: | 8911 | RunNo: | 12778 | | | | | |
| Prep Date: | 8/19/2013 | Analysis Date: | 8/21/2013 | SeqNo: | 364364 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 4940 | 40.0 | 2000 | 2840 | 105 | 80 | 120 | 0.324 | 5 | |

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: **1308729**

RcptNo: **1**

Received by/date:

[Signature]

08/16/13

Logged By: **Ashley Gallegos**

8/16/2013 10:07:00 AM

[Signature]

Completed By: **Ashley Gallegos**

8/16/2013 2:20:58 PM

[Signature]

Reviewed By:

IO

08/19/13

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 # of preserved bottles checked for pH: **12**
(**<2 or >12 unless noted**)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? **No**
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: *[Signature]*
(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 | 1.6 | Good | Yes | | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601774

02-Feb-16

Client: Blagg Engineering

Project: Jaquez GC B #3E

| | | | | | | | | | | |
|------------|-------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-A | SampType: | MBLK | TestCode: | EPA Method 200.7: Dissolved Metals | | | | | |
| Client ID: | PBW | Batch ID: | A31652 | RunNo: | 31652 | | | | | |
| Prep Date: | | Analysis Date: | 1/25/2016 | SeqNo: | 968461 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | ND | 0.020 | | | | | | | | |

| | | | | | | | | | | |
|------------|--------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-A | SampType: | LCS | TestCode: | EPA Method 200.7: Dissolved Metals | | | | | |
| Client ID: | LCSW | Batch ID: | A31652 | RunNo: | 31652 | | | | | |
| Prep Date: | | Analysis Date: | 1/25/2016 | SeqNo: | 968462 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 0.50 | 0.020 | 0.5000 | 0 | 99.2 | 85 | 115 | | | |

| | | | | | | | | | | |
|------------|----------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LLCS-A | SampType: | LCSLL | TestCode: | EPA Method 200.7: Dissolved Metals | | | | | |
| Client ID: | BatchQC | Batch ID: | A31652 | RunNo: | 31652 | | | | | |
| Prep Date: | | Analysis Date: | 1/25/2016 | SeqNo: | 968463 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | ND | 0.020 | 0.02000 | 0 | 82.8 | 50 | 150 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601774

02-Feb-16

Client: Blagg Engineering

Project: Jaquez GC B #3E

| Sample ID MB | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|--------------------|----------|------|
| Client ID: PBW | Batch ID: R31665 | RunNo: 31665 | | | | | | | | |
| Prep Date: | Analysis Date: 1/25/2016 | SeqNo: 969035 | | | | | | 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: R31665 | RunNo: 31665 | | | | | | | | |
| Prep Date: | Analysis Date: 1/25/2016 | SeqNo: 969036 | | | | | | Units: mg/L | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | 9.5 | 0.50 | 10.00 | 0 | 95.1 | 90 | 110 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601774

02-Feb-16

Client: Blagg Engineering

Project: Jaquez GC B #3E

| | | | | | | | | | | |
|------------------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-23389 | SampType: | MBLK | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | PBW | Batch ID: | 23389 | RunNo: | 31711 | | | | | |
| Prep Date: | 1/25/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 970440 | 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-23389 | SampType: | LCS | TestCode: | SM2540C MOD: Total Dissolved Solids | | | | | |
| Client ID: | LCSW | Batch ID: | 23389 | RunNo: | 31711 | | | | | |
| Prep Date: | 1/25/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 970441 | Units: | mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 1020 | 20.0 | 1000 | 0 | 102 | 80 | 120 | | | |

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1601774**

RcptNo: **1**

Received by/date:

JA *01/21/16*

Logged By: **Michelle Garcia**

1/21/2016 8:15:00 AM

Michelle Garcia

Completed By: **Michelle Garcia**

1/21/2016 9:24:00 AM

Michelle Garcia

Reviewed By:

[Signature] *01/21/16*

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: *0* (*<2 or >12 unless noted*)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? *No*
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No Checked by: *mg*
(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 | 1.0 | Good | Yes | | | |