

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

| | | |
|-------------------------------------------------|---------------------------------|--------------------|
| Name of Company: BP | Contact: Jeff Peace | |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone No.: 505-326-9479 | |
| Facility Name: A. L. Elliott D 2A | Facility Type: Natural gas well | |
| Surface Owner: Federal | Mineral Owner: Federal | API No. 3004522337 |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|------------------------|------------------------|------------------|
| Unit Letter J | Section 11 | Township 29N | Range 9W | Feet from the 1,800 | North/South Line South | Feet from the 1,500 | East/West Line East | County: San Juan |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|------------------------|------------------------|------------------|

Latitude 36.73696 Longitude 107.74421

NATURE OF RELEASE

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|
| Type of Release: condensate/oil | Volume of Release: unknown | Volume Recovered: none |
| Source of Release: below grade tank - 95 bbl, Tank A | Date and Hour of Occurrence: unknown | Date and Hour of Discovery: 3/27/2012; 11:38 AM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. RCUD MAR 6 '14 | |
| If a Watercourse was Impacted, Describe Fully.* | OIL CONS. DIV. DIST. 9 | |

Describe Cause of Problem and Remedial Action Taken.* Soil beneath the BGT showed evidence of impacts during removal. Soil analysis resulted in BTEX and chloride below standards, but TPH exceeded the standard. Analysis results are attached. Impacted soil was excavated.

Describe Area Affected and Cleanup Action Taken.* Soils beneath the BGT were sampled and impacts were found from immediately below the BGT to a depth of 15-16.5 feet. Impacted soil was removed to 16-20 feet, but due to the sandy soil the excavation was caving in at that depth and additional digging and sampling was not feasible. A test hole dug near the BGT cellar to 13-14 feet deep, where it also started caving in showed no impacts. The excavation area was backfilled so drilling could be done to determine the extent of the impacts. Borehole samples in the center of the excavation tested at 20-21.5 feet and 25-26.5 feet below the surface were below the TPH standard of 100 mg/kg. A borehole dug immediately next to the excavation site and sampled at 25-26.5 feet showed no evidence of impacts, indicating the release was confined to the area directly below the BGT. A vent pipe consisting of 2 inch PVC with a screen interval from 10-20 feet was installed in the center of the excavation to remove residual hydrocarbons. Approximately 60 cubic yards of impacted soil were taken to the landfarm for treatment. Sample data, borehole diagrams, a site map and photos of the excavation are attached.

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

| | | |
|--------------------------------------|----------------------------------------------------------|-----------------------------------|
| Signature: <i>Jeff Peace</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jeff Peace | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Field Environmental Advisor | Approval Date: 1/13/15 | Expiration Date: |
| E-mail Address: peace.jeffrey@bp.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: February 28, 2014 | Phone: 505-326-9479 | |

* Attach Additional Sheets If Necessary

*Additional Diligence
was Required.*
#NCS1501353625

19

| | | |
|-------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004522337 TANK ID (if applicable): A & B |
|-------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

FIELD REPORT:

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

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

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| SITE INFORMATION: QUAD/UNIT: J SEC: 11 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM 1/4 - 1/4/FOOTAGE: 1800'S / 1500'E NW/SE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN LEASE #: SF078132 PROD. FORMATION: MV CONTRACTOR: ELKHORN MBE - C. ZELLITTI | SITE NAME: A.L. ELLIOTT D #2A DATE STARTED: 03/27/12 DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST(S): JCB |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REFERENCE POINT: | WELL HEAD (W.H.) GPS COORD.: 36.73721 X 107.74459 GL ELEV.: 5,925' 1) 21 BGT (SW/DB) (B) GPS COORD.: 36.73721 X 107.74459 DISTANCE/BEARING FROM W.H.: 135', S50E 2) 95 BGT (SW/DB) (A) GPS COORD.: 36.73696 X 107.74421 DISTANCE/BEARING FROM W.H.: 135', S50E 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 |
| 1) SAMPLE ID: 21 BGT 5-PT @ 6' (B) 2) SAMPLE ID: 95 BGT 5-PT @ 6' (A) 3) SAMPLE ID: 95 BGT GRAB @ 12' 4) SAMPLE ID: _____ | SAMPLE DATE: 03/27/12 SAMPLE TIME: 1100 LAB ANALYSIS: TPH/BTEX/CI SAMPLE DATE: 03/27/12 SAMPLE TIME: 1138 LAB ANALYSIS: TPH/BTEX/CI SAMPLE DATE: 03/27/12 SAMPLE TIME: 1145 LAB ANALYSIS: TPH (8015B) SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____ |

| | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SOIL DESCRIPTION: | SOIL TYPE: SAND / SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: TAN @ 21 BGT / GRAY BLACK @ 95 BGT 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. 5 DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - GRAY / BLACK @ 95 BGT TO 12' BACKHOE LIMIT. |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION - _____

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: _____

ADDITIONAL COMMENTS: ~~21 BGT NO APPARENT IMPACTS.~~ **INVESTIGATION REQUIRED @ 95 BGT TO ESTABLISH VERTICAL & LATERAL EXTENT.**

| | |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| SOIL IMPACT DIMENSION ESTIMATION: 12 ft. X 12 ft. X 12 ft. | EXCAVATION ESTIMATION (Cubic Yards): 40-60 |
| DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' | NMOCD TPH CLOSURE STD: 100 ppm |

SITE SKETCH

X - S.P.D.

PLOT PLAN circle: **attached**
 OVM CALIB. READ. = **52.7** ppm RF = 0.52
 OVM CALIB. GAS = **100** ppm
 TIME: **11:50** (ampm) DATE: **3/27/12**

MISCELL. NOTES

WO: **N1511417**
 PO #: **71597**
 PK: **ZSCHWLLBGT**
 PJ #: _____
 OCD Appr. Date: **07/06/11**
 Tank ID: _____ Permit date: **05/10/11**
 A BGT Sidewalls Visible: Y / N
 B BGT Sidewalls Visible: Y / N
 Magnetic declination: **10° E**

| | | |
|---------------|----------|-------------------------|
| TRAVEL NOTES: | CALLOUT: | ONSITE: 03/27/12 |
|---------------|----------|-------------------------|

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203A01

Date Reported: 3/30/2012

CLIENT: Blagg Engineering

Client Sample ID: 95 BGT 5-pt 6'

Project: A.L. Elliott D 2A

Collection Date: 3/27/2012 11:38:00 AM

Lab ID: 1203A01-002

Matrix: MEOH (SOIL)

Received Date: 3/28/2012 9:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 450 | 100 | | mg/Kg | 10 | 3/29/2012 12:01:32 PM |
| Surr: DNOP | 0 | 77.4-131 | S | %REC | 10 | 3/29/2012 12:01:32 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 310 | 50 | | mg/Kg | 10 | 3/28/2012 12:59:21 PM |
| Surr: BFB | 279 | 69.7-121 | S | %REC | 10 | 3/28/2012 12:59:21 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.50 | | mg/Kg | 10 | 3/28/2012 12:59:21 PM |
| Toluene | ND | 0.50 | | mg/Kg | 10 | 3/28/2012 12:59:21 PM |
| Ethylbenzene | 0.96 | 0.50 | | mg/Kg | 10 | 3/28/2012 12:59:21 PM |
| Xylenes, Total | 18 | 1.0 | | mg/Kg | 10 | 3/28/2012 12:59:21 PM |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %REC | 10 | 3/28/2012 12:59:21 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: BRM |
| Chloride | 22 | 15 | | mg/Kg | 10 | 3/29/2012 7:17:15 PM |
| EPA METHOD 418.1: TPH | | | | | | Analyst: JMP |
| Petroleum Hydrocarbons, TR | 4,300 | 2,000 | | mg/Kg | 100 | 3/30/2012 |

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

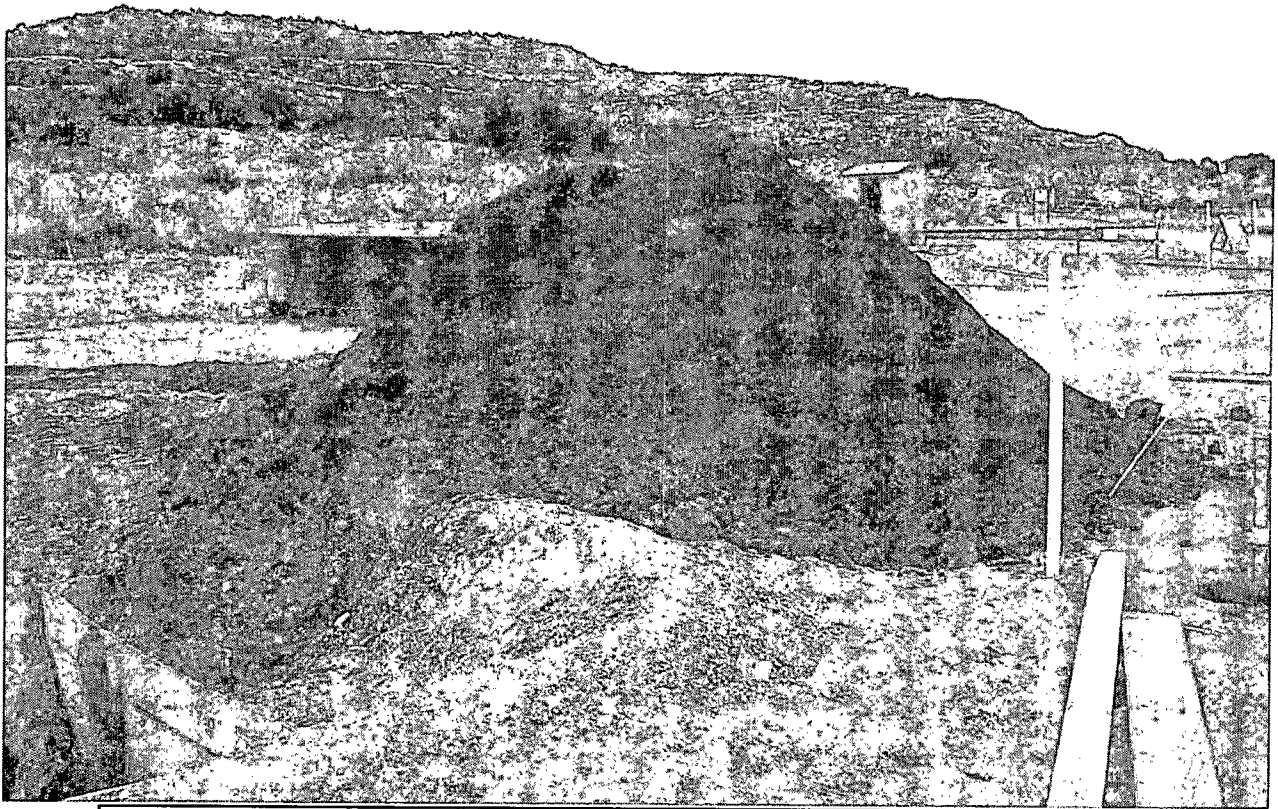
AL Elliott D #2A 95 bbl BGT release -
impacted soil removal 04/02/12



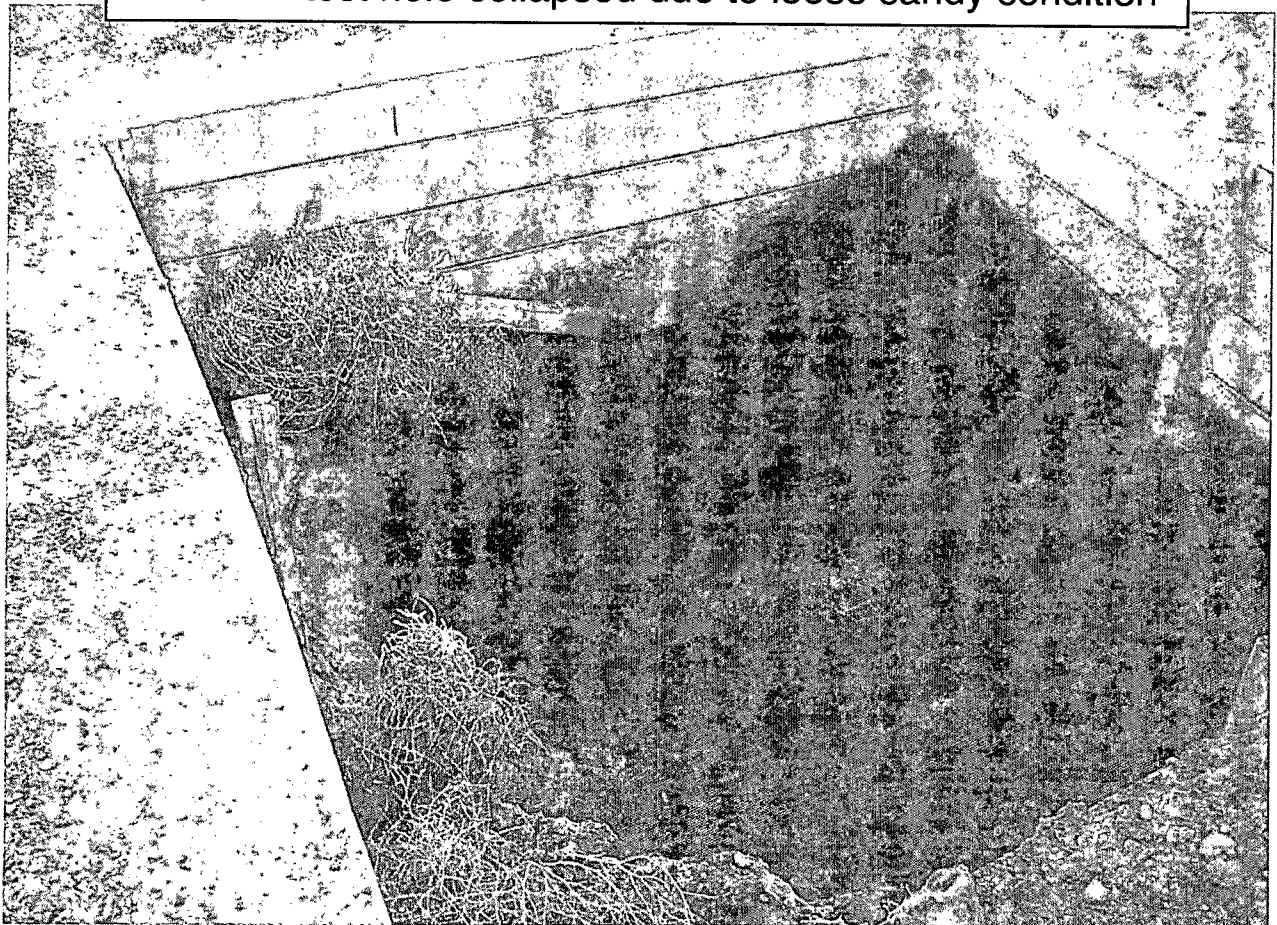
Test hole total depth ~ 16 - 20 ft. below grade



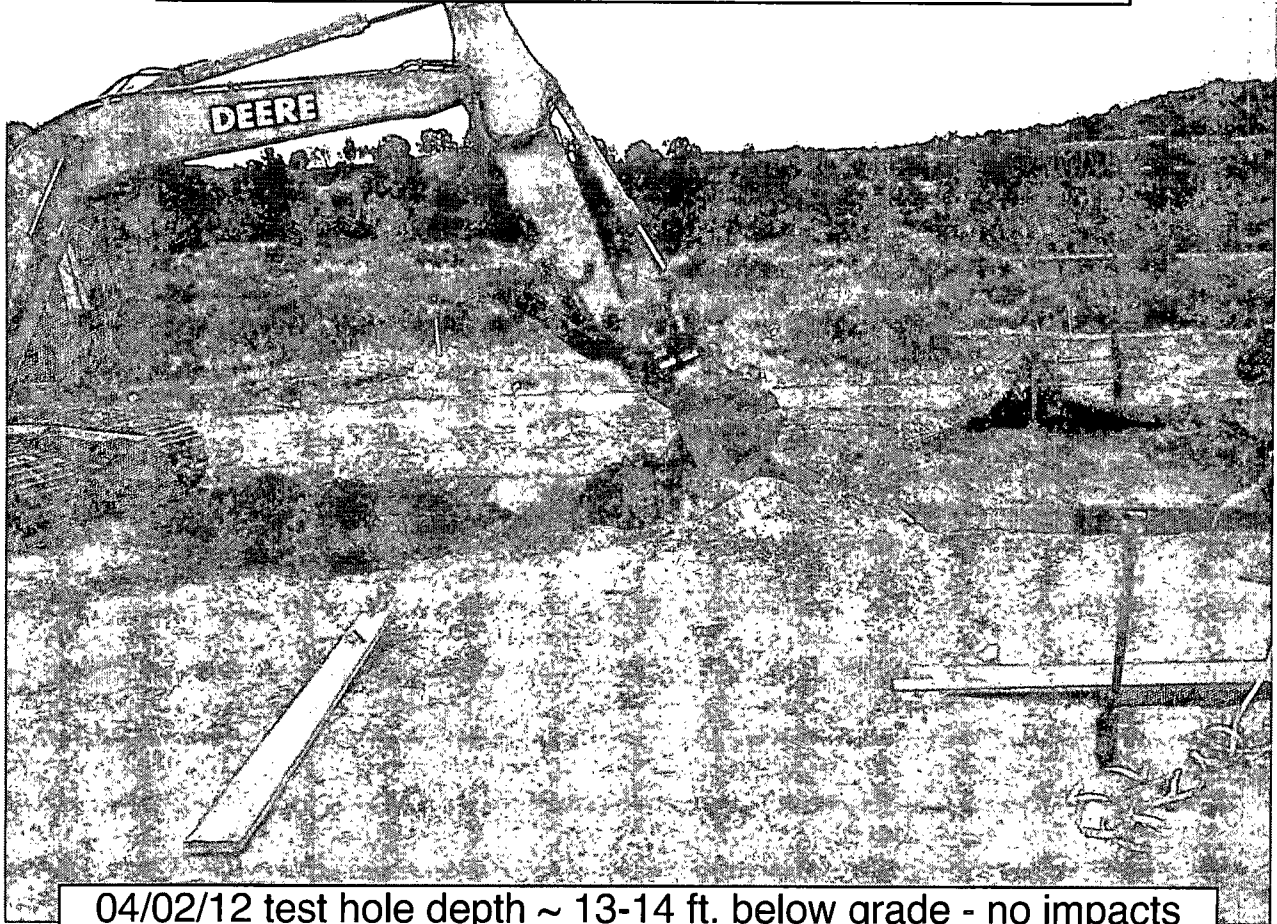
~40-60 cubic yards of impacted soil removed
during test hole advancement on 04/02/12



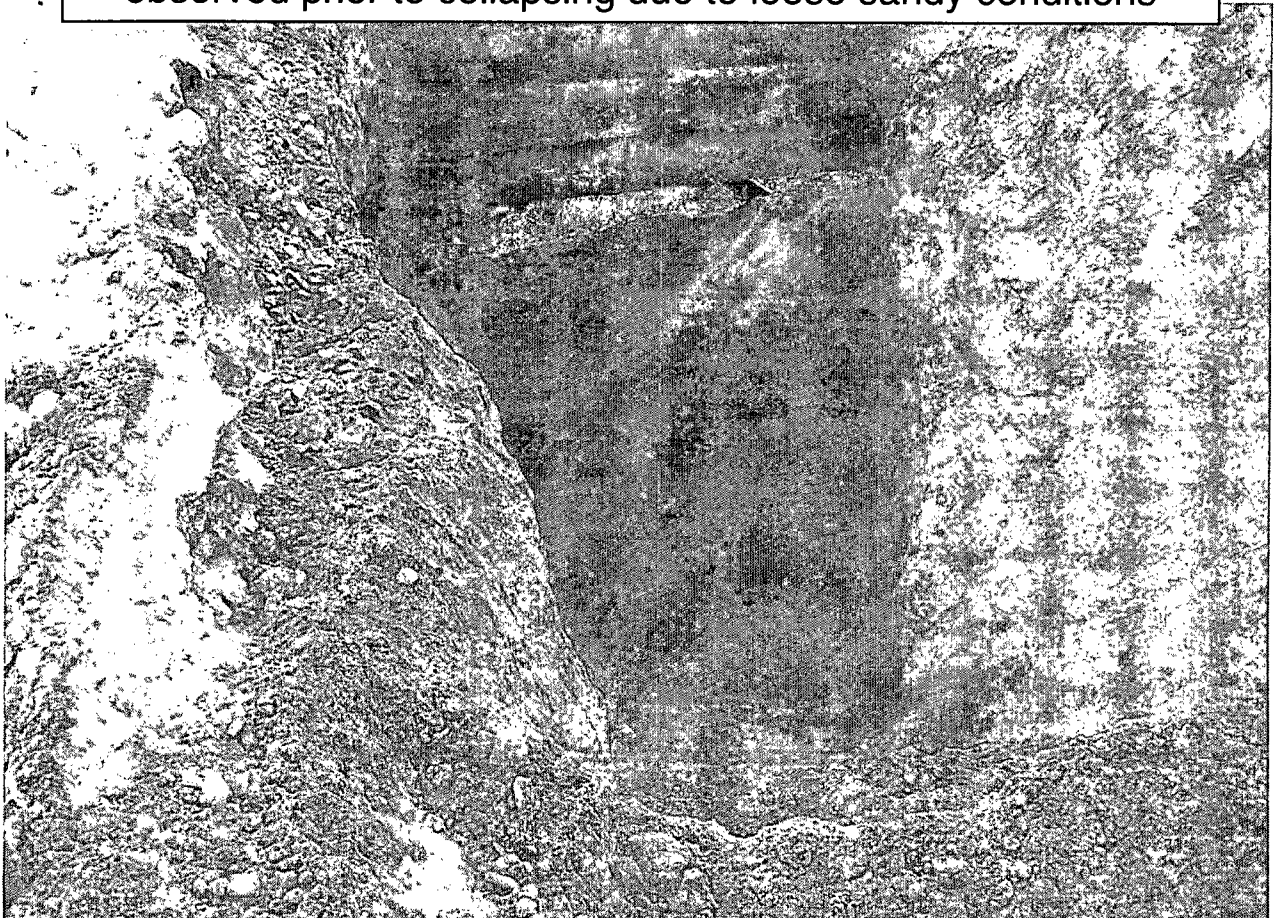
04/02/12 test hole collapsed due to loose sandy condition



04/02/12 test hole advancement east of bgt position



04/02/12 test hole depth ~ 13-14 ft. below grade - no impacts observed prior to collapsing due to loose sandy conditions



BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: AL ELLIOTT D # 2A UNIT J, SEC. 11, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER
BORING LOCATION: 148.3 FEET, S50.25E FROM WELL HEAD.

BORING #..... BH - 1
MW #..... N/A
PAGE #..... 1
DATE STARTED 10/04/12
DATE FINISHED 10/04/12
OPERATOR..... KP
LOGGED BY..... NJV

| DEPTH (FT.) | INTERVAL | LITHOLOGY INTERVAL | PIPING SCHEMATIC | SAMPLE INTERVAL | SAMPLE TIME | FIELD OVM (ppm) | BLOW COUNT PER 6" & RECOVERY | FIELD CLASSIFICATION AND REMARKS |
|-------------|----------|--------------------|------------------|-----------------|-------------|-----------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | | GROUND SURFACE |
| 2 | | | | | | | | TOP OF CASING APPROXIMATELY AT GRADE. |
| 4 | | | | | | | | |
| 6 | | | | | | | | |
| 8 | | | | | | | | DARK YELLOWISH ORANGE SAND TO SILTY SAND (FILL MATERIAL (CRUSHER FINES), NON COHESIVE, DRY TO SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 14.0 FT. BELOW GRADE). |
| 10 | | | TOS 10.00 ft. | | | | | |
| 12 | | | | | | | | |
| 14 | | | | | | | | MEDIUM DARK GRAY SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST, FIRM, APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (14.0 - 18.0 FT. BELOW GRADE). TPH = 384 ppm; benzene = ND ppm; total BTEX = 1.2 ppm. |
| 16 | | | | 15.00 16.50 | 0830 | 79.3 | 1-1-1 | |
| 18 | | | | | | | | |
| 20 | | | TD 20.00 ft. | | | | | |
| 22 | | | | 20.00 21.50 | 0838 | 0.0 | 2-3-2 | SAME AS 0.0-14.0 FT. TPH = 40 ppm; benzene = ND ppm; total BTEX = ND ppm. |
| 24 | | | | | | | | |
| 26 | | | | 25.00 26.50 | 0845 | 0.0 | 5-8-9 | SAME AS ABOVE. TPH = 59 ppm; benzene = ND ppm; total BTEX = ND ppm. |
| 28 | | | | | | | | |
| 30 | | | | | | | | |
| 32 | | | | | | | | |
| 34 | | | | | | | | |
| 36 | | | | | | | | |
| 38 | | | | | | | | |
| 40 | | | | | | | | |

NOTES:

- SAND TO SILTY SAND.
- SAND TO SILTY SAND (IMPACTED).
- TOS - Top of screen of monitor well.
- TD - Total depth/bottom extent of monitor well.
- OVM - Organic vapor meter or photoionization detector (PID).
- ppm - parts per million or milligram per kilogram (mg/Kg).
- TPH - Total Petroleum Hydrocarbons per US EPA Method 8015B.
- BTEX - Benzene, toluene, ethylbenzene, total xylenes.
- ND - Not detected at the reporting limit (see laboratory reports).

ALL SAMPLES COLLECTED VIA SPLIT SPOON SAMPLER.

New Mexico Oil Conservation
Division closure standards for
the release location:
TPH = 100 ppm
Benzene = 10 ppm
Total BTEX = 50 ppm

OVM CALIBRATION:
52.5 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 10/04/12.
Time - 0855.

Vent piping consist of 2 inch PVC - casing from 5.00 ft. below grade to 10.00 ft. below grade, 0.020 slotted screen between 10.00 to 20.00 ft. below grade, sand packed annular to 8.0 ft. below grade, bentonite grout between 5.0 to 8.0 ft. below grade, cuttings to surface.

DRAWING: AL ELLIOTT D 2A BH-1. SKF

DATE: 02/28/14

DWN BY: NJV

BLAGG ENGINEERING, INC.


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

BORE / TEST HOLE REPORT

CLIENT: **BP AMERICA PRODUCTION CO.**
LOCATION NAME: **AL ELLIOTT D # 2A** UNIT J, SEC. 11, T29N, R9W
CONTRACTOR: **BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.**
EQUIPMENT USED: **MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER**
BORING LOCATION: **152.5 FEET, S51.5E FROM WELL HEAD.**

BORING #..... **BH-2**
MW #..... **N/A**
PAGE #..... **2**
DATE STARTED **10/04/12**
DATE FINISHED **10/04/12**
OPERATOR..... **KP**
LOGGED BY..... **NJV**

| DEPTH (FT.) | INTERVAL | LITHOLOGY INTERVAL | SAMPLE INTERVAL | SAMPLE TIME | FIELD OVM (ppm) | BLOW COUNT PER 6" & RECOVERY | FIELD CLASSIFICATION AND REMARKS |
|----------------|----------|-----------------------|--------------------|----------------|-----------------------|---------------------------------------|-------------------------------------------------------------------------------|
| 2 | | | | | | | |
| 4 | | | | | | | |
| 6 | | | | | | | |
| 8 | | | | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | | | | | | | |
| 22 | | | | | | | |
| 24 | | | | | | | |
| 26 | | | 25.00 26.50 | 1101 | 0.0 | 4-10-12 | SOIL - SAME AS ABOVE. TPH = ND ppm; benzene = ND ppm; total BTEX = ND ppm. |
| 28 | | | | | | | |
| 30 | | | | | | | |
| 32 | | | | | | | |
| 34 | | | | | | | |
| 36 | | | | | | | |
| 38 | | | | | | | |
| 40 | | | | | | | |

NOTES:  - SAND TO SILTY SAND.
OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
TPH - Total Petroleum Hydrocarbons per US EPA Method 8015B.
BTEX - Benzene, toluene, ethylbenzene, total xylenes.
ND - Not detected at the reporting limit (see laboratory reports).
SAMPLE COLLECTED VIA SPLIT SPOON SAMPLER.

New Mexico Oil Conservation
Division closure standards for
the release location:
TPH = 100 ppm
Benzene = 10 ppm
Total BTEX = 50 ppm

OVM CALIBRATION:
52.5 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 10/04/12.
Time - 0855.

DRAWING: **AL ELLIOTT D 2A BH-2. SKF** DATE: **10/11/12** DWN BY: **NJV**

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210359

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: BH1 @ 15'-16.5' (93) NV

Project: A. L. Elliott D #2A

Collection Date: 10/4/2012 8:30:00 AM

Lab ID: 1210359-001

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------------------|--------|----------|------|-------|----|------------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 300 | 10 | | mg/Kg | 1 | 10/10/2012 2:07:15 PM |
| Surr: DNOP | 112 | 77.6-140 | | %REC | 1 | 10/10/2012 2:07:15 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 84 | 20 | | mg/Kg | 4 | 10/10/2012 3:44:34 PM |
| Surr: BFB | 342 | 84-116 | S | %REC | 4 | 10/10/2012 3:44:34 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.20 | | mg/Kg | 4 | 10/10/2012 3:44:34 PM |
| Toluene | ND | 0.20 | | mg/Kg | 4 | 10/10/2012 3:44:34 PM |
| Ethylbenzene | ND | 0.20 | | mg/Kg | 4 | 10/10/2012 3:44:34 PM |
| Xylenes, Total | 1.2 | 0.39 | | mg/Kg | 4 | 10/10/2012 3:44:34 PM |
| Surr: 4-Bromofluorobenzene | 120 | 80-120 | S | %REC | 4 | 10/10/2012 3:44:34 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | ND | 7.5 | | mg/Kg | 5 | 10/10/2012 11:40:47 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 1210359

Date Reported: 10/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: BH1 @ 20'-21.5' (PS) NV

Project: A. L. Elliott D #2A

Collection Date: 10/4/2012 8:38:00 AM

Lab ID: 1210359-002

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------------------|--------|----------|------|-------|----|------------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 40 | 9.9 | | mg/Kg | 1 | 10/10/2012 2:32:23 PM |
| Surr: DNOP | 106 | 77.6-140 | | %REC | 1 | 10/10/2012 2:32:23 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 10/9/2012 5:25:36 PM |
| Surr: BFB | 106 | 84-116 | | %REC | 1 | 10/9/2012 5:25:36 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 10/9/2012 5:25:36 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/9/2012 5:25:36 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 10/9/2012 5:25:36 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 10/9/2012 5:25:36 PM |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 10/9/2012 5:25:36 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | ND | 7.5 | | mg/Kg | 5 | 10/10/2012 12:30:27 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 1210359

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Project: A. L. Elliott D #2A

Lab ID: 1210359-003

Matrix: SOIL

Client Sample ID: BH1 @ 25'-26.5' (95) *NV*

Collection Date: 10/4/2012 8:45:00 AM

Received Date: 10/5/2012 10:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------------------|--------|----------|------|-------|----|------------------------|
| EPA METHOD 8015B: DIESEL RANGE ORGANICS | | | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | 59 | 10 | | mg/Kg | 1 | 10/10/2012 2:57:34 PM |
| Surr: DNOP | 110 | 77.6-140 | | %REC | 1 | 10/10/2012 2:57:34 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 10/9/2012 11:39:55 PM |
| Surr: BFB | 105 | 84-116 | | %REC | 1 | 10/9/2012 11:39:55 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 10/9/2012 11:39:55 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 10/9/2012 11:39:55 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 10/9/2012 11:39:55 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 10/9/2012 11:39:55 PM |
| Surr: 4-Bromofluorobenzene | 114 | 80-120 | | %REC | 1 | 10/9/2012 11:39:55 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | ND | 7.5 | | mg/Kg | 5 | 10/10/2012 12:55:16 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 1210359

Date Reported: 10/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: BH2 @ 25'-26.5' (95) NV

Project: A. L. Elliott D #2A

Collection Date: 10/4/2012 11:01:00 AM

Lab ID: 1210359-004

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 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 | 10/10/2012 12:32:31 PM |
| Surr: DNOP | 94.5 | 77.6-140 | | %REC | 1 | 10/10/2012 12:32:31 PM |
| EPA METHOD 8015B: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 10/10/2012 12:08:39 AM |
| Surr: BFB | 103 | 84-116 | | %REC | 1 | 10/10/2012 12:08:39 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.047 | | mg/Kg | 1 | 10/10/2012 12:08:39 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 10/10/2012 12:08:39 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 10/10/2012 12:08:39 AM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 10/10/2012 12:08:39 AM |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %REC | 1 | 10/10/2012 12:08:39 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 13 | 7.5 | | mg/Kg | 5 | 10/10/2012 12:05:37 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210359

19-Oct-12

Client: Blagg Engineering

Project: A. L. Elliott D #2A

| | | | | | | | | | | | |
|------------|------------|-----|----------------|-------------|------|-----------|--------------------------|------|--------------|------|--|
| Sample ID | MB-4224 | | SampType: | MBLK | | TestCode: | EPA Method 300.0: Anions | | | | |
| Client ID: | PBS | | Batch ID: | 4224 | | RunNo: | 6131 | | | | |
| Prep Date: | 10/10/2012 | | Analysis Date: | 10/10/2012 | | SeqNo: | 176679 | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Chloride | ND | 1.5 | | | | | | | | | |

| | | | | | | | | | | | |
|------------|------------|-----|----------------|-------------|------|-----------|--------------------------|------|--------------|------|--|
| Sample ID | LCS-4224 | | SampType: | LCS | | TestCode: | EPA Method 300.0: Anions | | | | |
| Client ID: | LCSS | | Batch ID: | 4224 | | RunNo: | 6131 | | | | |
| Prep Date: | 10/10/2012 | | Analysis Date: | 10/10/2012 | | SeqNo: | 176680 | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.9 | 90 | 110 | | | | |

| | | | | | | | | | | |
|------------|----------------|-----|---------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1210389-001BMS | | SampType: MS | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | | Batch ID: 4224 | | RunNo: 6131 | | | | | |
| Prep Date: | 10/10/2012 | | Analysis Date: 10/10/2012 | | SeqNo: 176682 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 23 | 7.5 | 15.00 | 8.220 | 98.5 | 64.4 | 117 | | | |

| | | | | | | | | | | | |
|------------|-----------------|-----|----------------|-------------|------|-----------|--------------------------|-------|--------------|------|--|
| Sample ID | 1210389-001BMSD | | SampType: | MSD | | TestCode: | EPA Method 300.0: Anions | | | | |
| Client ID: | BatchQC | | Batch ID: | 4224 | | RunNo: | 6131 | | | | |
| Prep Date: | 10/10/2012 | | Analysis Date: | 10/10/2012 | | SeqNo: | 176683 | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Chloride | 23 | 7.5 | 15.00 | 8.220 | 98.1 | 64.4 | 117 | 0.249 | 20 | | |

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#: 1210359

19-Oct-12

Client: Blagg Engineering

Project: A. L. Elliott D #2A

| | | | | | | | | | | | |
|-----------------------------|-----------|-----|----------------|-------------|------|-----------|-----------------------------------------|------|--------------|------|--|
| Sample ID | MB-4192 | | SampType: | MBLK | | TestCode: | EPA Method 8015B: Diesel Range Organics | | | | |
| Client ID: | PBS | | Batch ID: | 4192 | | RunNo: | 6108 | | | | |
| Prep Date: | 10/9/2012 | | Analysis Date: | 10/10/2012 | | SeqNo: | 176064 | | 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-4192 | | SampType: LCS | | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | LCSS | | Batch ID: 4192 | | RunNo: 6108 | | | | | |
| Prep Date: | 10/9/2012 | | Analysis Date: 10/10/2012 | | SeqNo: 176065 | | 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 | 78.5 | 52.6 | 130 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.4 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------|---------------------------|-----------|-------------|---------------------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1210356-006AMS | SampType: MS | | | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | Batch ID: 4192 | | | RunNo: 6108 | | | | | |
| Prep Date: | 10/9/2012 | Analysis Date: 10/10/2012 | | | SeqNo: 176408 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46 | 10 | 50.35 | 0 | 91.3 | 57.2 | 146 | | | |
| Surr: DNOP | 4.4 | | 5.035 | | 87.0 | 77.6 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------|-----|---------------------------|-------------|---------------------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1210356-006AMSD | | SampType: MSD | | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | | Batch ID: 4192 | | RunNo: 6108 | | | | | |
| Prep Date: | 10/9/2012 | | Analysis Date: 10/10/2012 | | SeqNo: 176409 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 60 | 10 | 51.23 | 0 | 117 | 57.2 | 146 | 26.5 | 24.5 | R |
| Surr: DNOP | 4.0 | | 5.123 | | 77.3 | 77.6 | 140 | 0 | 0 | S |

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#: 1210359

19-Oct-12

Client: Blagg Engineering

Project: A. L. Elliott D #2A

| | | | | | | | | | | |
|------------|------------|-----|---------------------------|-------------|------------------------------------------|----------|-------------|------|----------|------|
| Sample ID | MB-4249 | | SampType: MBLK | | TestCode: EPA Method 8015B: Diesel Range | | | | | |
| Client ID: | PBW | | Batch ID: 4249 | | RunNo: 6146 | | | | | |
| Prep Date: | 10/11/2012 | | Analysis Date: 10/11/2012 | | SeqNo: 177920 | | Units: %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 1.1 | | 1.000 | | 112 | 79.5 | 166 | | | |

| | | | | | | | | | | | |
|------------|------------|-----|----------------|-------------|------|-----------|--------------------------------|------|-------------|------|--|
| Sample ID | LCS-4249 | | SampType: | LCS | | TestCode: | EPA Method 8015B: Diesel Range | | | | |
| Client ID: | LCSW | | Batch ID: | 4249 | | RunNo: | 6146 | | | | |
| Prep Date: | 10/11/2012 | | Analysis Date: | 10/11/2012 | | SeqNo: | 177921 | | Units: %REC | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Surr: DNOP | 0.53 | | 0.5000 | | 105 | 79.5 | 166 | | | | |

| | | | | | | | | | | |
|------------|------------|-----|---------------------------|-------------|------------------------------------------|----------|-------------|------|----------|------|
| Sample ID | LCSD-4249 | | SampType: LCSD | | TestCode: EPA Method 8015B: Diesel Range | | | | | |
| Client ID: | LCSS02 | | Batch ID: 4249 | | RunNo: 6146 | | | | | |
| Prep Date: | 10/11/2012 | | Analysis Date: 10/11/2012 | | SeqNo: 177922 | | Units: %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 0.50 | | 0.5000 | | 101 | 79.5 | 166 | 0 | 0 | |

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#: 1210359

19-Oct-12

Client: Blagg Engineering

Project: A. L. Elliott D #2A

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-4182 | SampType: | MBLK | TestCode: | EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 4182 | RunNo: | 6117 | | | | | |
| Prep Date: | 10/8/2012 | Analysis Date: | 10/9/2012 | SeqNo: | 176252 | 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 | | 102 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|-----|--------------------------|-------------|--------------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-4182 | | SampType: LCS | | TestCode: EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | LCSS | | Batch ID: 4182 | | RunNo: 6117 | | | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: 10/9/2012 | | SeqNo: 176254 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 103 | 74 | 117 | | | |
| Surr: BFB | 1100 | | 1000 | | 105 | 84 | 116 | | | |

| | | | | | | | | | | |
|-------------------------------|----------------|-----|--------------------------|-------------|--------------------------------------------|----------|--------------|------|----------|------|
| Sample ID | 1210356-006AMS | | SampType: MS | | TestCode: EPA Method 8015B: Gasoline Range | | | | | |
| Client ID: | BatchQC | | Batch ID: 4182 | | RunNo: 6117 | | | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: 10/9/2012 | | SeqNo: 176258 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26 | 4.7 | 23.56 | 0 | 109 | 70 | 130 | | | |
| Surr: BFB | 1000 | | 942.5 | | 110 | 84 | 116 | | | |

| | | | | | | | | | | | |
|-------------------------------|-----------------|-----|----------------|-------------|------|-----------|----------------------------------|------|----------|-------|--|
| Sample ID | 1210356-006AMSD | | SampType: | MSD | | TestCode: | EPA Method 8015B: Gasoline Range | | | | |
| Client ID: | BatchQC | | Batch ID: | 4182 | | RunNo: | 6117 | | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: | 10/9/2012 | | SeqNo: | 176259 | | Units: | mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 24.95 | 0 | 108 | 70 | 130 | 4.69 | 22.1 | | |
| Surr: BFB | 1100 | | 998.0 | | 109 | 84 | 116 | 0 | 0 | | |

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#: 1210359

19-Oct-12

Client: Blagg Engineering

Project: A. L. Elliott D #2A

| | | | | | | | | | | |
|----------------------------|-----------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | MB-4182 | | SampType: | MBLK | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | PBS | | Batch ID: | 4182 | | RunNo: | 6117 | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: | 10/9/2012 | | SeqNo: | 176280 | | 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 | | 110 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | LCS-4182 | | SampType: | LCS | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | LCSS | | Batch ID: | 4182 | | RunNo: | 6117 | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: | 10/9/2012 | | SeqNo: | 176281 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 76.3 | 117 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 108 | 77 | 116 | | | |
| Xylenes, Total | 3.3 | 0.10 | 3.000 | 0 | 108 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 117 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|----------------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | 1210356-007AMS | | SampType: | MS | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | BatchQC | | Batch ID: | 4182 | | RunNo: | 6117 | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: | 10/9/2012 | | SeqNo: | 176286 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.048 | 0.9662 | 0.01274 | 117 | 67.2 | 113 | | | S |
| Toluene | 1.2 | 0.048 | 0.9662 | 0.02902 | 117 | 62.1 | 116 | | | S |
| Ethylbenzene | 1.2 | 0.048 | 0.9662 | 0.004127 | 119 | 67.9 | 127 | | | |
| Xylenes, Total | 3.5 | 0.097 | 2.899 | 0.01920 | 119 | 60.6 | 134 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9662 | | 116 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | 1210356-007AMSD | | SampType: | MSD | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | BatchQC | | Batch ID: | 4182 | | RunNo: | 6117 | | | |
| Prep Date: | 10/8/2012 | | Analysis Date: | 10/9/2012 | | SeqNo: | 176287 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.049 | 0.9737 | 0.01274 | 114 | 67.2 | 113 | 2.07 | 14.3 | S |
| Toluene | 1.1 | 0.049 | 0.9737 | 0.02902 | 114 | 62.1 | 116 | 2.13 | 15.9 | |
| Ethylbenzene | 1.1 | 0.049 | 0.9737 | 0.004127 | 116 | 67.9 | 127 | 2.41 | 14.4 | |
| Xylenes, Total | 3.4 | 0.097 | 2.921 | 0.01920 | 117 | 60.6 | 134 | 1.51 | 12.6 | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 0.9737 | | 116 | 80 | 120 | 0 | 0 | |

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 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1210359

Received by/date: COM 10/05/12

Logged By: Anne Thorne 10/5/2012 10:10:00 AM

Anne Thorne

Completed By: Anne Thorne 10/5/2012

Anne Thorne

Reviewed By: AT 10/05/12

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.4 | Good | Yes | | | |

Chain-of-Custody Record

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

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

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

email or Fax#:

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

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
A.L. ELLIOTT D # 2A

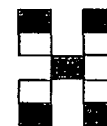
Project #:

Project Manager:
NELSON VELEZ

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: **1.4**



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 |
|---------|------|--------|-------------------------------------|----------------------|-------------------|----------------|---------------------------|------------------------------|-------------------------------|--------------------|--------------------|-------------------|---------------|------------------------------------|------------------------------|-------------|-----------------|------------------|-------------|------------------------|
| 10/4/12 | 0830 | SOIL | BH1 @ 15' - 16.5' 105 NV | 4 oz. - 1 | Cool | 1210359 001 | V | V | | | | | | | | | | V | V | |
| 10/4/12 | 0838 | SOIL | BH1 @ 20' - 21.5' 105 NV | 4 oz. - 1 | Cool | 002 | V | V | | | | | | | | | | V | V | |
| 10/4/12 | 0845 | SOIL | BH1 @ 25' - 26.5' 105 NV | 4 oz. - 1 | Cool | 003 | V | V | | | | | | | | | | V | V | |
| 10/4/12 | 1101 | SOIL | BH2 @ 25' - 26.5' 105 NV | 4 oz. - 1 | Cool | 004 | V | V | | | | | | | | | | V | V | |
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Date: 10/4/12 Time: 1502 Relinquished by: *[Signature]*

Date: 10/4/12 Time: 1708 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 10/4/12 Time: 1502

Received by: *[Signature]* Date: 10/5/12 Time: 1010

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

Send invoice to:

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