

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
FEB 22 2016
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: Valentine GC 1A | Facility Type: Natural gas well |
| Surface Owner: Fee | Mineral Owner: Fee |
| API No. 3004521881 | |

LOCATION OF RELEASE

| | | | | | | | | |
|--------------------|---------------|-----------------|--------------|------------------------|---------------------------|----------------------|------------------------|------------------|
| Unit Letter D | Section 32 | Township 32N | Range 10W | Feet from the 1,180 | North/South Line North | Feet from the 795 | East/West Line West | County: San Juan |
| Latitude 36.946056 | | | | Longitude -107.911940 | | | | |

NATURE OF RELEASE

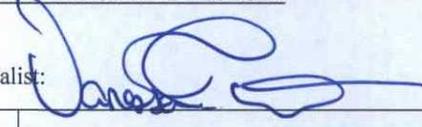
| | | |
|--|---|--|
| Type of Release: condensate/oil/water | Volume of Release: unknown | Volume Recovered: N/A |
| Source of Release: below grade tank - 21 bbl | Date and Hour of Occurrence: unknown | Date and Hour of Discovery: January 26, 2016; 11:00 AM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for BTEX and chloride below standards. However, laboratory results for TPH via Method 8015 extended were 10,400 ppm. The area was excavated and contaminants removed from the site. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.* The impacts found surrounding and below the BGT were excavated and transported off site for landfarming. Approximately 95 cubic yards were removed from the site. Final laboratory analysis supported closure of the BGT location.

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

| | | | |
|--|--|---|------------------|
| Signature:  | | OIL CONSERVATION DIVISION | |
| Printed Name: Steve Moskal | | Approved by Environmental Specialist:  | |
| Title: Field Environmental Coordinator | | Approval Date: 02/23/2016 | Expiration Date: |
| E-mail Address: steven.moskal@bp.com | | Conditions of Approval: | |
| Date: February 19, 2016 Phone: 505-326-9497 | | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

NJF11603356354

BP AMERICA PRODUCTION COMPANY

REMEDIATION OF IMPACTS ASSOCIATED WITH 21 BARREL BELOW-GRADE TANK

VALENTINE GC 001A

API #: 30-045-21881

Legal Description: (Unit Letter D, Sec. 32 -T32N -R10W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. **January 26, 2016:** Impacted soils discovered during confirmation sampling of 21 barrel below-grade tank. Preliminary investigation conducted with the advancement of four (4) test holes (see Field Report - page 1 of 3 for locations).
2. **January 29, 2016:** Remediation via excavation initiated. New Mexico Oil Conservation Division (NMOCD) representative from the District III Aztec office was present during the sample collection (see Field Report - page 2 of 3).
3. **February 02, 2016:** Subsequent sampling of expanded southwest sidewall conducted (see Field Report - page 3 of 3).
4. **February 10, 2016:** Final excavation measurements (in feet) approximately 15 x 15 x 9.5 average depth below grade. Total volume transported to JFJ Landfarm = 95 cubic yards (Form C-138 attached).

CLIENT: **BP** **BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: **3004521881**
TANK ID (if applicable): **B**

FIELD REPORT: (circle one): BGT CONFIRMATION **RELEASE INVESTIGATION** OTHER:
PAGE #: **1** of **3**

SITE INFORMATION: SITE NAME: **VALENTINE GC # 1A**
DATE STARTED: **01/26/16**
DATE FINISHED: _____
QUAD/UNIT: **D** SEC: **32** TWP: **32N** RNG: **10W** PM: **NM** CNTY: **SJ** ST: **NM**
1/4 - 1/4 FOOTAGE: **1,180'N / 795'W** **NW/NW** LEASE TYPE: FEDERAL / STATE **FEE** / INDIAN
LEASE #: **-** PROD. FORMATION: **MV** CONTRACTOR: **STRIKE MBF - S. GLYNN**
ENVIRONMENTAL SPECIALIST(S): **NJV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.94558 X 107.91226** GL ELEV.: **6,104'**
1) **21 BGT (SW/SB)** GPS COORD.: **36.946056 X 107.911940** DISTANCE/BEARING FROM W.H.: **181', N28E**
2) _____ GPS COORD.: _____ DISTANCE/BEARING FROM W.H.: _____
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: NE @ 4' (21) | SAMPLE DATE: 01/26/16 | SAMPLE TIME: 1118 | LAB ANALYSIS: SIDEWALLS COMBINE FOR 4 PT. COMPOSITE | OVM READING (ppm): 1,207 |
| 2) SAMPLE ID: SE @ 4.5' (21) | SAMPLE DATE: 01/26/16 | SAMPLE TIME: 1018 | LAB ANALYSIS: 4PC - SW @ 4' - 5' (21) | OVM READING (ppm): 998 |
| 3) SAMPLE ID: SW @ 5' (21) | SAMPLE DATE: 01/26/16 | SAMPLE TIME: 1133 | LAB ANALYSIS: 8015B/8021B/300.0 (CI) | OVM READING (ppm): 446 |
| 4) SAMPLE ID: NW @ 4' (21) | SAMPLE DATE: 01/26/16 | SAMPLE TIME: 1033 | LAB ANALYSIS: 8015B/8021B/300.0 (CI) | OVM READING (ppm): 501 |
| 5) SAMPLE ID: TB(A) @ 6' (21) | SAMPLE DATE: 01/26/16 | SAMPLE TIME: 1045 | LAB ANALYSIS: 8015B/8021B/300.0 (CI) | OVM READING (ppm): 715 |

SOIL DESCRIPTION: SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER **BEDROCK (SANDSTONE)**
SOIL COLOR: **MOSTLY DARK YELLOWISH ORANGE** PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE COHESIVE HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON COHESIVE SOILS): LOOSE FIRM DENSE VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION - **DISCOLORED SOIL AND SOILS & BEDROCK SANDSTONE IMMEDIATELY ADJACENT TO BGT.**
MOISTURE: DRY / SLIGHTLY MOIST MOIST WET SATURATED / SUPER SATURATED ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - **MOST LIKELY FROM SNOW**
SAMPLE TYPE: GRAB COMPOSITE - # OF PTS. **5**
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - **MEDIUM GRAY SOIL DIRECTLY BENEATH BGT APPROX. 0.5 - 1 FOOT THICKNESS. MELT.**

SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - _____
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: **DISCOLORED SOILS DIRECTLY BENEATH BGT.**
EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - _____
OTHER: **APPEARS THAT SANDSTONE WAS CARVED OUT TO INSTALL 21 BGT. BEDROCK WAS OBSERVED AS SHALLOW AS 2 FEET (FT.) BELOW GRADE < 10 FT. FROM BGT (NW QUADRANT). BEDROCK SANDSTONE DISCOLORATION PHASED INTO OLIVE GRAY TO A PALE YELLOWISH ORANGE.**
SOIL IMPACT DIMENSION ESTIMATION: **10** ft. X **10** ft. X **1** ft. IMPACTED SOIL ESTIMATION (Cubic Yards): **3 - 5 (±)**
DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **<1,000'** NMOCD TPH CLOSURE STD: **1,000** ppm

SITE SKETCH BGT Located : off on site PLOT PLAN circle: **attached**

OVM CALIB. READ. = **52.2** ppm RF=0.52
OVM CALIB. GAS = **100** ppm
TIME: **11:10** am/pm DATE: **01/26/16**

MISCELL. NOTES
WO:
REF. #: **P-76**
VID: **VHIXONEVB2**
PJ #:
Permit date(s): **06/02/10**
OCD Appr. date(s): **10/19/15**
Tank ID: **B** OVM = Organic Vapor Meter ppm = parts per million
B BGT Sidewalls Visible: Y / N
BGT Sidewalls Visible: Y / N
BGT Sidewalls Visible: Y / N
Magnetic declination: **10° E**

X - S.P.D.

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.
NOTES: **GOOGLE EARTH IMAGERY DATE: 3/15/2015.** ONSITE: **01/26/16**

| | | |
|-------------------|---|---|
| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | API #: 3004521881 TANK ID (if applicable): B |
|-------------------|---|---|

FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: _____

PAGE #: **2** of **3**

| | | |
|--|-------------------------------------|---|
| SITE INFORMATION: | SITE NAME: VALENTINE GC # 1A | DATE STARTED: 01/29/16 |
| QUAD/UNIT: D SEC: 32 TWP: 32N RNG: 10W PM: NM CNTY: SJ ST: NM | | DATE FINISHED: _____ |
| 1/4 - 1/4 FOOTAGE: 1,180'N / 795'W NW/NW LEASE TYPE: FEDERAL / <u>STATE</u> / FEE / INDIAN | | ENVIRONMENTAL SPECIALIST(S): NJV |
| LEASE #: - PROD. FORMATION: MV CONTRACTOR: MBF - C. PARKS | | |

| | | |
|--------------------------|--|---|
| REFERENCE POINT: | WELL HEAD (W.H.) GPS COORD.: 36.94558 X 107.91226 | GL ELEV.: 6,104' |
| 1) 21 BGT (SW/SB) | GPS COORD.: 36.946056 X 107.911940 | DISTANCE/BEARING FROM W.H.: 181', N28E |
| 2) _____ | GPS COORD.: _____ | DISTANCE/BEARING FROM W.H.: _____ |
| 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: | OVM READING (ppm) |
|--|---|-------------------|
| 1) SAMPLE ID: 3PC - NE @ 5.5' - 7.5' SAMPLE DATE: 01/29/16 SAMPLE TIME: 1115 LAB ANALYSIS: 8015B/8021B | HALL | 90.3 |
| 2) SAMPLE ID: 3PC - SE @ 5.5' - 7.5' SAMPLE DATE: 01/29/16 SAMPLE TIME: 1120 LAB ANALYSIS: 8015B/8021B | | 318 |
| 3) SAMPLE ID: 3PC - SW @ 5' - 7' SAMPLE DATE: 01/29/16 SAMPLE TIME: 1125 LAB ANALYSIS: 8015B/8021B | | 372 |
| 4) SAMPLE ID: 3PC - NW @ 5' - 7' SAMPLE DATE: 01/29/16 SAMPLE TIME: 1128 LAB ANALYSIS: 8015B/8021B | | 508 |
| 5) SAMPLE ID: 5PC - EB @ 9.5' SAMPLE DATE: 01/29/16 SAMPLE TIME: 1135 LAB ANALYSIS: 8015B/8021B | | 33.4 |

SOIL DESCRIPTION: SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER **BEDROCK (SANDSTONE)**

SOIL COLOR: **MOSTLY DARK YELLOWISH ORANGE (BEDROCK)** PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE HC ODOR DETECTED: YES NO EXPLANATION - **OVM SAMPLES IN SE, SW, & NW WALLS**

MOISTURE: DRY SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED (all from very hard bedrock sandstone).

SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. **3 & 5** ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - _____

DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - **GRAYISH GREEN IN BOTTOM HALF OF NW SIDEWALL & APPROX. 2 FEET IN SE & SW WALLS.**

SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - _____

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: **BASED ON DISCOLORATION & OVM SAMPLE READINGS.**

EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - _____

OTHER: **ENTIRE EXCAVATION CONSISTED OF HARD TO VERY HARD, WELL CONSOLIDATED, WELL CEMENTED BEDROCK SANDSTONE. COLLECTED SAMPLES BY SCRAPING SIDEWALLS WITH GEOPICK HAMMER. EXCAVATION BOTTOM SCRAPED WITH BACKHOE (dark yellowish orange in color).**

SOIL IMPACT DIMENSION ESTIMATION: **15** ft. X **13** ft. X **9.5** ft. IMPACTED SOIL ESTIMATION (Cubic Yards): **80**

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

SITE SKETCH

BGT Located : off on site

PLOT PLAN circle: attached

N

| | |
|------------------------------------|-----------------------|
| OVM CALIB. READ. = 51.4 ppm | RF = 0.52 |
| OVM CALIB. GAS = 100 ppm | |
| TIME: 11:46 am | DATE: 01/29/16 |

MISCELL. NOTES

WO: _____

REF. #: _____

VID: **VHIXONEVRM**

PJ #: _____

Permit date(s): **06/02/10**

OCD Appr. date(s): **10/19/15**

Tank ID: **B** OVM = Organic Vapor Meter ppm = parts per million

B BGT Sidewalls Visible: Y / (N)

BGT Sidewalls Visible: Y / N

BGT Sidewalls Visible: Y / N

Magnetic declination: **10° E**

X - S.P.D.

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

NOTES: **GOOGLE EARTH IMAGERY DATE: 3/15/2015.** ONSITE: **01/26/16, 01/28/16, 01/29/16**

CLIENT: **BP**

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

API #: **3004521881**
TANK ID (if applicable): **B**

FIELD REPORT:

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

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

SITE INFORMATION:

SITE NAME: **VALENTINE GC # 1A**

DATE STARTED: **02/02/16**

QUAD/UNIT: **D** SEC: **32** TWP: **32N** RNG: **10W** PM: **NM** CNTY: **SJ** ST: **NM**

DATE FINISHED:

1/4 - 1/4 FOOTAGE: **1,180'N / 795'W** **NW/NW** LEASE TYPE: FEDERAL STATE FEE INDIAN

ENVIRONMENTAL SPECIALIST(S): **NJV**

LEASE #: **-** PROD. FORMATION: **MV** CONTRACTOR: **MBF - C. PARKS**

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: **36.94558 X 107.91226** GL ELEV.: **6,104'**

- 1) **21 BGT (SW/SB)** GPS COORD.: **36.946056 X 107.911940** DISTANCE/BEARING FROM W.H.: **181', N28E**
- 2) GPS COORD.: DISTANCE/BEARING FROM W.H.:
- 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) **330**

| SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | OVM READING (ppm) |
|------------------------------|-----------------|--------------|--------------------|-------------------|
| 1) 3PC - SW @ 5' - 7' | 02/02/16 | 1300 | 8015B/8021B | 330 |
| 2) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | |
| 3) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | |
| 4) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | |
| 5) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: | LAB ANALYSIS: | |

SOIL DESCRIPTION:

SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER **BEDROCK (SANDSTONE)**

SOIL COLOR: **MOSTLY DARK YELLOWISH ORANGE (BEDROCK)**

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

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

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

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

HC ODOR DETECTED: YES NO EXPLANATION - **OVM SAMPLE (from very hard bedrock (sandstone)).**

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

ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION -

SAMPLE TYPE: GRAB COMPOSITE # OF PTS. **3**

DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - **GRAYISH GREEN IN BOTTOM 2 FEET IN SW WALLS.**

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: **BASED ON DISCOLORATION & OVM SAMPLE READING.**

EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION -

OTHER: **ENTIRE EXCAVATION CONSISTED OF HARD TO VERY HARD, WELL CONSOLIDATED, WELL CEMENTED BEDROCK SANDSTONE. COLLECTED SAMPLE BY SCRAPING SIDEWALL WITH GEOPICK HAMMER & SHOVEL.**

SOIL IMPACT DIMENSION ESTIMATION: **15** ft. X **15** ft. X **9.5** ft. IMPACTED SOIL ESTIMATION (Cubic Yards): **88**

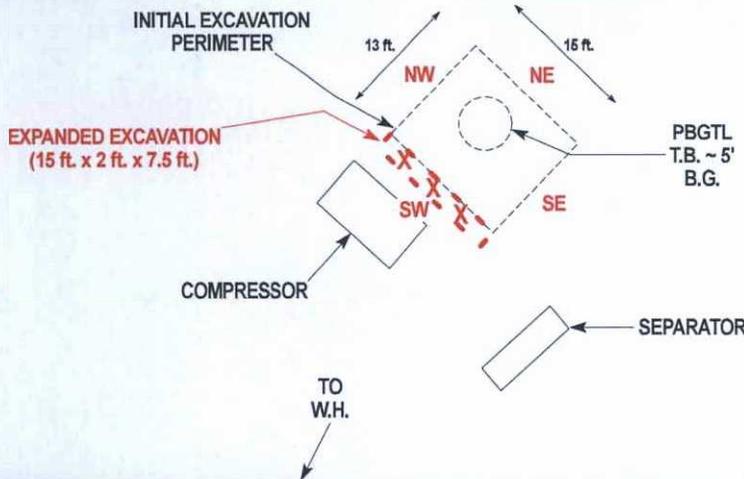
DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **<1,000'** NMOCD TPH CLOSURE STD: **1,000** ppm

SITE SKETCH

BGT Located: off on site

PLOT PLAN circle: attached

OVM CALIB. READ. = **53.2** ppm RF=0.52
OVM CALIB. GAS = **100** ppm
TIME: **12:50** am/pm DATE: **02/02/16**



X - S.P.D.

MISCELL. NOTES

WO:
REF. #:
VID: **VHIXONEVRM**
PJ #:
Permit date(s): **06/02/10**
OCD Appr. date(s): **10/19/15**
Tank ID: **B** OVM = Organic Vapor Meter ppm = parts per million
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; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: **GOOGLE EARTH IMAGERY DATE: 3/15/2015.**

ONSITE: **01/26/16, 01/28/16, 01/29/16, 02/02/16**

BP AMERICA PRODUCTION COMPANY
VALENTINE GAS COM 001A
API 3004521881 LEASE STATE
1180 FNL 795 FWL (D) SEC 32 T32N R10W
SAN JUAN COUNTY ELEV 6104
LAT 36° 56' 45.600"
LONG 107° 54' 42.948"



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TB(A) @ 6' (21)
 Project: Valentine GC # 1A Collection Date: 1/26/2016 10:45:00 AM
 Lab ID: 1601989-001 Matrix: MEOH (SOIL) Received Date: 1/27/2016 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LGT |
| Chloride | ND | 30 | | mg/Kg | 20 | 1/27/2016 1:13:46 PM | 23436 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 3200 | 98 | | mg/Kg | 10 | 1/27/2016 11:24:13 AM | 23425 |
| Surr: DNOP | 0 | 70-130 | S | %REC | 10 | 1/27/2016 11:24:13 AM | 23425 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 910 | 210 | | mg/Kg | 50 | 1/27/2016 9:59:19 AM | 23405 |
| Surr: BFB | 190 | 66.2-112 | S | %REC | 50 | 1/27/2016 9:59:19 AM | 23405 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 1.0 | | mg/Kg | 50 | 1/27/2016 9:59:19 AM | 23405 |
| Toluene | ND | 2.1 | | mg/Kg | 50 | 1/27/2016 9:59:19 AM | 23405 |
| Ethylbenzene | 4.3 | 2.1 | | mg/Kg | 50 | 1/27/2016 9:59:19 AM | 23405 |
| Xylenes, Total | 58 | 4.1 | | mg/Kg | 50 | 1/27/2016 9:59:19 AM | 23405 |
| Surr: 4-Bromofluorobenzene | 117 | 80-120 | | %REC | 50 | 1/27/2016 9:59:19 AM | 23405 |

Spill & Release Closure Standard Applied

Total TPH = 4,110 mg/Kg; closure standard = 1,000 mg/Kg
Benzene = ND mg/Kg; closure standard = 10 mg/Kg
Total BTEX = 62.3 mg/Kg; closure standard = 50 mg/Kg

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1601B45
 Date Reported: 2/2/2016

CLIENT: Blagg Engineering **Client Sample ID:** 3PC-NE@5.5'-7.5'
Project: Valentine GC # 1A **Collection Date:** 1/29/2016 11:15:00 AM
Lab ID: 1601B45-001 **Matrix:** MEOH (SOIL) **Received Date:** 1/30/2016 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 73 | 9.8 | | mg/Kg | 1 | 2/1/2016 10:25:17 AM | 23497 |
| Motor Oil Range Organics (MRO) | 59 | 49 | | mg/Kg | 1 | 2/1/2016 10:25:17 AM | 23497 |
| Surr: DNOP | 87.0 | 70-130 | | %Rec | 1 | 2/1/2016 10:25:17 AM | 23497 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 8.8 | 4.2 | | mg/Kg | 1 | 2/1/2016 11:14:07 AM | A31828 |
| Surr: BFB | 160 | 66.2-112 | S | %Rec | 1 | 2/1/2016 11:14:07 AM | A31828 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.042 | | mg/Kg | 1 | 2/1/2016 11:14:07 AM | B31828 |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 2/1/2016 11:14:07 AM | B31828 |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 2/1/2016 11:14:07 AM | B31828 |
| Xylenes, Total | 0.36 | 0.084 | | mg/Kg | 1 | 2/1/2016 11:14:07 AM | B31828 |
| Surr: 4-Bromofluorobenzene | 127 | 80-120 | S | %Rec | 1 | 2/1/2016 11:14:07 AM | B31828 |

Total TPH = 140.8 mg/Kg;

Down gradient sidewall

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1601B45
 Date Reported: 2/2/2016

CLIENT: Blagg Engineering **Client Sample ID:** 3PC-SE@5.5'-7.5'
Project: Valentine GC # 1A **Collection Date:** 1/29/2016 11:20:00 AM
Lab ID: 1601B45-002 **Matrix:** MEOH (SOIL) **Received Date:** 1/30/2016 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 590 | 9.8 | | mg/Kg | 1 | 2/1/2016 10:53:09 AM | 23497 |
| Motor Oil Range Organics (MRO) | 420 | 49 | | mg/Kg | 1 | 2/1/2016 10:53:09 AM | 23497 |
| Surr: DNOP | 96.6 | 70-130 | | %Rec | 1 | 2/1/2016 10:53:09 AM | 23497 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 110 | 4.0 | | mg/Kg | 1 | 2/1/2016 11:38:46 AM | A31828 |
| Surr: BFB | 382 | 66.2-112 | S | %Rec | 1 | 2/1/2016 11:38:46 AM | A31828 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.040 | | mg/Kg | 1 | 2/1/2016 11:38:46 AM | B31828 |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 2/1/2016 11:38:46 AM | B31828 |
| Ethylbenzene | 0.55 | 0.040 | | mg/Kg | 1 | 2/1/2016 11:38:46 AM | B31828 |
| Xylenes, Total | 5.6 | 0.079 | | mg/Kg | 1 | 2/1/2016 11:38:46 AM | B31828 |
| Surr: 4-Bromofluorobenzene | 168 | 80-120 | S | %Rec | 1 | 2/1/2016 11:38:46 AM | B31828 |

Total TPH = 1,120 mg/Kg

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

| | |
|---|--|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level. 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 | <ul style="list-style-type: none"> 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, Inc.

Analytical Report

Lab Order 1601B45

Date Reported: 2/2/2016

CLIENT: Blagg Engineering

Client Sample ID: 3PC-NW@5'-7'

Project: Valentine GC # 1A

Collection Date: 1/29/2016 11:28:00 AM

Lab ID: 1601B45-004

Matrix: MEOH (SOIL)

Received Date: 1/30/2016 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 360 | 9.6 | | mg/Kg | 1 | 2/1/2016 11:48:31 AM | 23497 |
| Motor Oil Range Organics (MRO) | 200 | 48 | | mg/Kg | 1 | 2/1/2016 11:48:31 AM | 23497 |
| Surr: DNOP | 90.6 | 70-130 | | %Rec | 1 | 2/1/2016 11:48:31 AM | 23497 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 280 | 43 | | mg/Kg | 10 | 2/1/2016 1:41:41 PM | A31828 |
| Surr: BFB | 274 | 66.2-112 | S | %Rec | 10 | 2/1/2016 1:41:41 PM | A31828 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.043 | | mg/Kg | 1 | 2/1/2016 12:27:59 PM | B31828 |
| Toluene | 0.56 | 0.043 | | mg/Kg | 1 | 2/1/2016 12:27:59 PM | B31828 |
| Ethylbenzene | 1.4 | 0.043 | | mg/Kg | 1 | 2/1/2016 12:27:59 PM | B31828 |
| Xylenes, Total | 14 | 0.85 | | mg/Kg | 10 | 2/1/2016 1:41:41 PM | B31828 |
| Surr: 4-Bromofluorobenzene | 299 | 80-120 | S | %Rec | 1 | 2/1/2016 12:27:59 PM | B31828 |

Total TPH = 840 mg/Kg

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

| | |
|---|--|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level. 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 | <ul style="list-style-type: none"> 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, Inc.

Analytical Report
 Lab Order 1601B45
 Date Reported: 2/2/2016

CLIENT: Blagg Engineering
 Project: Valentine GC # 1A
 Lab ID: 1601B45-003

Client Sample ID: 3PC-SW@5'-7'
 Collection Date: 1/29/2016 11:25:00 AM
 Matrix: MEOH (SOIL) Received Date: 1/30/2016 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 1100 | 100 | | mg/Kg | 10 | 2/1/2016 12:48:24 PM | 23497 |
| Motor Oil Range Organics (MRO) | 900 | 510 | | mg/Kg | 10 | 2/1/2016 12:48:24 PM | 23497 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 2/1/2016 12:48:24 PM | 23497 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 430 | 39 | | mg/Kg | 10 | 2/1/2016 1:17:08 PM | A31828 |
| Surr: BFB | 425 | 66.2-112 | S | %Rec | 10 | 2/1/2016 1:17:08 PM | A31828 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.039 | | mg/Kg | 1 | 2/1/2016 12:03:23 PM | B31828 |
| Toluene | 0.18 | 0.039 | | mg/Kg | 1 | 2/1/2016 12:03:23 PM | B31828 |
| Ethylbenzene | 1.6 | 0.039 | | mg/Kg | 1 | 2/1/2016 12:03:23 PM | B31828 |
| Xylenes, Total | 26 | 0.77 | | mg/Kg | 10 | 2/1/2016 1:17:08 PM | B31828 |
| Surr: 4-Bromofluorobenzene | 473 | 80-120 | S | %Rec | 1 | 2/1/2016 12:03:23 PM | B31828 |

Total TPH = 2,430 mg/Kg

Up gradient sidewall

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

| | |
|---|--|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level. 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 | <ul style="list-style-type: none"> 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, Inc.

Analytical Report
 Lab Order 1602067
 Date Reported: 2/4/2016

CLIENT: Blagg Engineering **Client Sample ID:** 3PC-SW2 @ 5'-7'
Project: VALENTINE GC #1A **Collection Date:** 2/2/2016 1:00:00 PM
Lab ID: 1602067-001 **Matrix:** SOIL **Received Date:** 2/3/2016 7:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 320 | 10 | | mg/Kg | 1 | 2/3/2016 9:56:36 AM | 23551 |
| Motor Oil Range Organics (MRO) | 240 | 50 | | mg/Kg | 1 | 2/3/2016 9:56:36 AM | 23551 |
| Surr: DNOP | 106 | 70-130 | | %Rec | 1 | 2/3/2016 9:56:36 AM | 23551 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 62 | 8.1 | | mg/Kg | 2 | 2/3/2016 10:56:25 AM | 23523 |
| Surr: BFB | 311 | 66.2-112 | S | %Rec | 2 | 2/3/2016 10:56:25 AM | 23523 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.041 | | mg/Kg | 2 | 2/3/2016 10:56:25 AM | 23523 |
| Toluene | ND | 0.081 | | mg/Kg | 2 | 2/3/2016 10:56:25 AM | 23523 |
| Ethylbenzene | 0.13 | 0.081 | | mg/Kg | 2 | 2/3/2016 10:56:25 AM | 23523 |
| Xylenes, Total | 1.3 | 0.16 | | mg/Kg | 2 | 2/3/2016 10:56:25 AM | 23523 |
| Surr: 4-Bromofluorobenzene | 121 | 80-120 | S | %Rec | 2 | 2/3/2016 10:56:25 AM | 23523 |

Total TPH = 622 mg/Kg
Up gradient sidewall

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

| | |
|---|--|
| <p>Qualifiers:</p> <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level. 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 | <ul style="list-style-type: none"> 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, Inc.

Analytical Report
 Lab Order 1601B45
 Date Reported: 2/2/2016

CLIENT: Blagg Engineering **Client Sample ID:** 5PC-EB@9.5'
Project: Valentine GC # 1A **Collection Date:** 1/29/2016 11:35:00 AM
Lab ID: 1601B45-005 **Matrix:** MEOH (SOIL) **Received Date:** 1/30/2016 9:15:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: KJH |
| Diesel Range Organics (DRO) | 130 | 9.5 | | mg/Kg | 1 | 2/1/2016 12:20:50 PM | 23497 |
| Motor Oil Range Organics (MRO) | 120 | 48 | | mg/Kg | 1 | 2/1/2016 12:20:50 PM | 23497 |
| Surr: DNOP | 84.8 | 70-130 | | %Rec | 1 | 2/1/2016 12:20:50 PM | 23497 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 19 | 4.0 | | mg/Kg | 1 | 2/1/2016 12:52:35 PM | A31828 |
| Surr: BFB | 230 | 66.2-112 | S | %Rec | 1 | 2/1/2016 12:52:35 PM | A31828 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.040 | | mg/Kg | 1 | 2/1/2016 12:52:35 PM | B31828 |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 2/1/2016 12:52:35 PM | B31828 |
| Ethylbenzene | 0.096 | 0.040 | | mg/Kg | 1 | 2/1/2016 12:52:35 PM | B31828 |
| Xylenes, Total | 0.99 | 0.081 | | mg/Kg | 1 | 2/1/2016 12:52:35 PM | B31828 |
| Surr: 4-Bromofluorobenzene | 128 | 80-120 | S | %Rec | 1 | 2/1/2016 12:52:35 PM | B31828 |

Total TPH = 269 mg/Kg
Excavation Bottom

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

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

Chain-of-Custody Record

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

Mailing Address: **P.O. BOX 97**

BLOOMFIELD, NM 87413

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

mail or Fax#:

(A/QC Package)

Standard Level 4 (Full Validation)

Credentiation:

NELAP Other

EDD (Type)

Turn-Around Time:

Standard Rush Day

Project Name:

VALENTINE GC # 1A

Project #:

Project Manager:

NELSON VELEZ

Sampler:

NELSON VELEZ

On Ice: Yes No

Sample Temperature: **11**

Container Type and #

4 oz. - 1

Preservative Type

Cool

HEAL No.

1601989

Date

1/26/16

Time

1045

Matrix

SOIL

Sample Request ID

TB(A) @ 6' (21)

Date

1/26/16

Time

1200

Matrix

SOIL

Sample Request ID

4PC - SW @ 4' - 5' (21)

Date

1/26/16

Time

1200



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

| | | | | | | | | | | | | | | |
|--|---|---|--|--|--|---|--|--|---|---|---|---|--|--|
| <input checked="" type="checkbox"/> BTEX + MTBE + TPH (Gas only) | <input checked="" type="checkbox"/> BTEX + MTBE + TPH (8021B) | <input checked="" type="checkbox"/> TPH 8015B (GRO / DRO / MGP) | <input checked="" type="checkbox"/> TPH (Method 418.1) | <input checked="" type="checkbox"/> EDB (Method 504.1) | <input checked="" type="checkbox"/> PAH (8310 or 8270SIMS) | <input checked="" type="checkbox"/> RCRA 8 Metals | <input checked="" type="checkbox"/> Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄) | <input checked="" type="checkbox"/> 8081 Pesticides / 8082 PCB's | <input checked="" type="checkbox"/> 8260B (VOA) | <input checked="" type="checkbox"/> 8270 (Semi-VOA) | <input checked="" type="checkbox"/> Chloride (soil - 300.0 / water - 300.1) | <input checked="" type="checkbox"/> Grab sample | <input checked="" type="checkbox"/> 4 pt. composite sample | <input checked="" type="checkbox"/> Air Bubbles (Y or N) |
|--|---|---|--|--|--|---|--|--|---|---|---|---|--|--|

Remarks:

BILL DIRECTLY TO BP:

Steve Moskal, 200 Energy Court, Farmington, NM 87401

Reference #: **P-76**

Paykey: **VHXONEVB2**

Received by:

Nelson Velez Date **1/27/16** Time **10:21**

Received by:

[Signature] Date **01/27/16** Time **08:00**

Relinquished by:

Nelson Velez

Relinquished by:

[Signature]

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 this analytical report.

Chain-of-Custody Record

Client: BLAGE ENER. / BP AMERICA

Project Name: VALENTINE GC #1A

Mailing Address: P.O. BOX 87

Location: BLOOMFIELD, NM 87413

Phone #: (505) 320-3489

Mail or Fax #: NELSON JEFF, & STEVE M.

QC Package: Standard Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type): _____

Turn-Around Time: BY MONDAY 2/1/16

Project #: _____

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On-Ice: Yes No

Sample Temperature: 23

Container Type and #

Preservative Type

HEAL No. 1601345

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
|---------|------|--------|-------------------|----------------------|-------------------|----------|
| 2/9/16 | 1115 | SOIL | 3PC-NEE55-7.5' | 4oz.-1 | COOL | -001 |
| 2/9/16 | 1120 | SOIL | 3PC-SEE55-7.5' | 4oz.-1 | COOL | -002 |
| 2/9/16 | 1125 | SOIL | 3PC-SWES-7' | 4oz.-1 | COOL | -003 |
| 2/9/16 | 1128 | SOIL | 3PC-NWES-7' | 4oz.-1 | COOL | -004 |
| 2/16/16 | 1135 | SOIL | 5PC-EBE9.5' | 4oz.-1 | COOL | -005 |

Received by: CMT Waels Date: 2/9/16 16/14

Relinquished by: [Signature] Date: _____

Received by: [Signature] Date: 01/30/16 0915

Relinquished by: CMT Waels Date: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

| BTEX + MTBE + TPH (Gas only) | BTEX + MTBE + TPH (8021) | BTEX + MTBE + TPH (8021) | BTEX + MTBE + TPH (8021) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | # COMPOSITE POINTS | Air Bubbles (Y or N) |
|------------------------------|--------------------------|--------------------------|--------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|--------------------|----------------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 3 | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 3 | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 3 | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 3 | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 5 | ✓ |

Remarks: PATKEY: VHXNDJEVRM
CONTACT: STEVE MOSKAL (BP)

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#: 1601989
 28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-23436 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 23436 | RunNo: | 31736 | | | | | |
| Prep Date: | 1/27/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 971237 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-23436 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 23436 | RunNo: | 31736 | | | | | |
| Prep Date: | 1/27/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 971238 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.5 | 90 | 110 | | | |

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601989

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID MB-23425 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 23425 | | RunNo: 31683 | | | | | | | |
| Prep Date: 1/27/2016 | Analysis Date: 1/27/2016 | | SeqNo: 970283 | | 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 | 70 | 130 | | | |

| Sample ID LCS-23425 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 23425 | | RunNo: 31683 | | | | | | | |
| Prep Date: 1/27/2016 | Analysis Date: 1/27/2016 | | SeqNo: 970284 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 10 | 50.00 | 0 | 88.0 | 65.8 | 136 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 98.9 | 70 | 130 | | | |

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601989
 28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID MB-23405 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 23405 | | RunNo: 31708 | | | | | | | |
| Prep Date: 1/26/2016 | Analysis Date: 1/27/2016 | | SeqNo: 970902 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 930 | | 1000 | | 93.2 | 66.2 | 112 | | | |

| Sample ID LCS-23405 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 23405 | | RunNo: 31708 | | | | | | | |
| Prep Date: 1/26/2016 | Analysis Date: 1/27/2016 | | SeqNo: 970903 | | | | 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 | 96.9 | 79.6 | 122 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 66.2 | 112 | | | |

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601989
 28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID | MB-23405 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 23405 | RunNo: | 31708 | | | | | |
| Prep Date: | 1/26/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 970927 | 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 | | 113 | 80 | 120 | | | |

| Sample ID | LCS-23405 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 23405 | RunNo: | 31708 | | | | | |
| Prep Date: | 1/26/2016 | Analysis Date: | 1/27/2016 | SeqNo: | 970928 | 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 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 111 | 80 | 120 | | | |
| Xylenes, Total | 3.4 | 0.10 | 3.000 | 0 | 114 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 121 | 80 | 120 | | | S |

Qualifiers:

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



Hall Environmental Analysis Laboratory
 3901 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: **1601989**

ReptNo: **1**

Received by/date:

[Signature] 01/27/16

Logged By: **Lindsay Mangin**

1/27/2016 8:00:00 AM

[Signature]

Completed By: **Lindsay Mangin**

1/27/2016 8:12:52 AM

[Signature]

Reviewed By:

[Signature] 01/27/16

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 5.0°C? Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.1 | Good | Yes | | | |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B45
 02-Feb-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID MB-23497 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|--------------------------------|-----|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 23497 | | RunNo: 31813 | | | | | | | |
| Prep Date: 2/1/2016 | Analysis Date: 2/1/2016 | | SeqNo: 973617 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 7.6 | | 10.00 | | 76.4 | 70 | 130 | | | |

| Sample ID LCS-23497 | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------------------------------|-----|--|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 23497 | | RunNo: 31813 | | | | | | | |
| Prep Date: 2/1/2016 | Analysis Date: 2/1/2016 | | SeqNo: 973618 | | | | 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 | 83.4 | 65.8 | 136 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 76.6 | 70 | 130 | | | |

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B45
 02-Feb-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID 5ML RB | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: A31828 | | RunNo: 31828 | | | | | | | |
| Prep Date: | Analysis Date: 2/1/2016 | | SeqNo: 974181 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 850 | | 1000 | | 85.5 | 66.2 | 112 | | | |

| Sample ID 2.5UG GRO LCS | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|--------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: A31828 | | RunNo: 31828 | | | | | | | |
| Prep Date: | Analysis Date: 2/1/2016 | | SeqNo: 974182 | | 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 | 90.8 | 79.6 | 122 | | | |
| Surr: BFB | 970 | | 1000 | | 97.4 | 66.2 | 112 | | | |

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B45
 02-Feb-16

Client: Blagg Engineering
Project: Valentine GC # 1A

| Sample ID | 5ML RB | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|---------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | B31828 | RunNo: | 31828 | | | | | |
| Prep Date: | | Analysis Date: | 2/1/2016 | SeqNo: | 974187 | 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 | | 104 | 80 | 120 | | | |

| Sample ID | 100NG BTEX LCS | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | B31828 | RunNo: | 31828 | | | | | |
| Prep Date: | | Analysis Date: | 2/1/2016 | SeqNo: | 974188 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.050 | 1.000 | 0 | 93.3 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.6 | 80 | 120 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.2 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.0 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 115 | 80 | 120 | | | |

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 |

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1601B45**

RcptNo: **1**

Received by/date:

[Signature]

01/30/16

Logged By: **Lindsay Mangin**

1/30/2016 9:15:00 AM

[Signature]

Completed By: **Lindsay Mangin**

1/30/2016 9:51:40 AM

[Signature]

Reviewed By: *dam 1/30/16*

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
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

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

Special Handling (if applicable)

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

| | | | |
|----------------------|-------|-------|---|
| Person Notified: | _____ | Date: | _____ |
| By Whom: | _____ | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | _____ | | |
| Client Instructions: | _____ | | |

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.3 | Good | Yes | | | |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1602067
 04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

| Sample ID: MB-23551 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 23551 | RunNo: 31874 | | | | | | | | |
| Prep Date: 2/3/2016 | Analysis Date: 2/3/2016 | SeqNo: 975374 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|--------------------------------|-----|----|-------|--|------|----|-----|--|--|--|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.8 | | 10.00 | | 98.0 | 70 | 130 | | | |

| Sample ID: LCS-23551 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 23551 | RunNo: 31874 | | | | | | | | |
| Prep Date: 2/3/2016 | Analysis Date: 2/3/2016 | SeqNo: 975375 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------------------------|-----|----|-------|---|------|------|-----|--|--|--|
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 95.0 | 65.8 | 136 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.3 | 70 | 130 | | | |

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#: 1602067
 04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

| Sample ID MB-23523 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 23523 | | RunNo: 31884 | | | | | | | |
| Prep Date: 2/2/2016 | Analysis Date: 2/3/2016 | | SeqNo: 975769 | | | | 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 | 890 | | 1000 | | 89.4 | 66.2 | 112 | | | |

| Sample ID LCS-23523 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 23523 | | RunNo: 31884 | | | | | | | |
| Prep Date: 2/2/2016 | Analysis Date: 2/3/2016 | | SeqNo: 975770 | | | | 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 | 98.4 | 79.6 | 122 | | | |
| Surr: BFB | 990 | | 1000 | | 99.5 | 66.2 | 112 | | | |

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#: 1602067
 04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

| Sample ID | MB-23523 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 23523 | RunNo: | 31884 | | | | | |
| Prep Date: | 2/2/2016 | Analysis Date: | 2/3/2016 | SeqNo: | 975781 | 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 | | 103 | 80 | 120 | | | |

| Sample ID | LCS-23523 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 23523 | RunNo: | 31884 | | | | | |
| Prep Date: | 2/2/2016 | Analysis Date: | 2/3/2016 | SeqNo: | 975782 | 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 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 108 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 120 | 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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1602067**

RcptNo: **1**

Received by/date: AT 02/03/16

Logged By: **Anne Thorne** 2/3/2016 7:00:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 2/3/2016 *Anne Thorne*

Reviewed By: *[Signature]* 2/3/16

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
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

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

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
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-138
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
BP America Production Co. 200 Energy Ct. Farmington, NM 87401

2. **Originating Site:**
Valentine GC 001A
Paykey: VHIXONEVRM

3. **Location of Material (Street Address, City, State or ULSTR):**
QRT/QRT: NW/NW Unit: D Section: 32 T32N R10W

4. **Source and Description of Waste:** Hydrocarbon impacted soils.
Estimated Volume 60 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 53 (yd³) / bbls
*21/10/16 - 12 cu yd
1/30/16 - 30 cu yd*

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**
I, Steve Moskal, representative or authorized agent for BP America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Steve Moskal, representative for BP America Production Company authorize IEI to complete the required testing/sign the Generator Waste Testing Certification.

I, [Signature], representative for IEI do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**
Strike

OCDD Permitted Surface Waste Management Facility

Name and Facility Permit #: Industrial Ecosystems Inc., JFJ Waste Management Facility (JFJ), Permit NM-01-0010B

Address of Facility: #49 CR 3150 Aztec, NM

Method of Treatment and/or Disposal:

- Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

- APPROVED DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Tamera Beery

TITLE: Clerk

DATE: 1-29-16

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-1782

1/29/16