| 1 m |
|---|
| 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

OIL CONS. DIV DIST. 3

AUG 1 1 2015

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505 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: GCU 228E | Facility Type: Natural gas well | | |

Surface Owner: Tribal

Mineral Owner: Federal

API No. 3004525448

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County: San Juan |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|------------------|
| F | 21 | 28N | 12W | 2,320 | North | 1,800 | West | |
| | | | | 200 | | | | |

Latitude <u>36.64862</u>

NATURE OF RELEASE

| Type of Release: condensate/oil | Volume of Release: unknown | Volume Recovered: none | | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|--|
| Source of Release: below grade tank | Date and Hour of Occurrence: | Date and Hour of Discovery: March 26, 2015: 3:14 PM | | | | | | | | |
| Was Immediate Notice Given? | If YES, To Whom? | 2013, 3.1 + 1 14 | | | | | | | | |
| Yes No Not Required | | | | | | | | | | |
| By Whom? | Date and Hour: | | | | | | | | | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Watercourse. | | | | | | | | | |
| 🗌 Yes 🖾 No | | | | | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* During constru | uction operations to remove the below | grade tank (BGT) impacted soil was | | | | | | | | |
| discovered under the tank. Visual observation showed no evidence of a n | release, but the lab report of soil analy | sis showed TPH of 610 ppm by Method | | | | | | | | |
| 8015D, with DRO of 310 ppm, MRO of 300 ppm. The DRO and MRO | exceed the BGT TPH limit of 100 ppn | n. Analysis results are attached. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* Soil samples benea | th the BGT at five feet depth showed in | impacts. Soil was excavated to eight feet | | | | | | | | |
| Envirotech landfarm for treatment. The excavation was backfilled with a | n-delect for TPH. 17 cubic yards of it | mpacted soll were transported to the | | | | | | | | |
| the C-138 for the impacted soil | stean son and is still within the active | wen area. Attached are the son samples and | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| I hereby certify that the information given above is true and complete to | the best of my knowledge and understa | and that pursuant to NMOCD rules and | | | | | | | | |
| regulations all operators are required to report and/or file certain release r | notifications and perform corrective ac | ctions for releases which may endanger | | | | | | | | |
| public health or the environment. The acceptance of a C-141 report by the | ne NMOCD marked as "Final Report" | does not relieve the operator of liability | | | | | | | | |
| should their operations have failed to adequately investigate and remedia or the environment. In addition NMOCD acceptance of a C 141 report. | does not relieve the operator of respon | sibility for compliance with any other | | | | | | | | |
| federal state or local laws and/or regulations | does not reneve the operator of respon | | | | | | | | | |
| Todoral, State, of rocal land and of regulations. | OIL CONSER | VATION DIVISION | | | | | | | | |
| 11 11 | OIL CONSER | | | | | | | | | |
| Signature: Han Mus | | | | | | | | | | |
| | Approved by Environmental Speciali | st: me | | | | | | | | |
| Printed Name: Steve Moskal | | | | | | | | | | |
| | 5/12/15 | | | | | | | | | |
| Title: Field Environmental Coordinator | Approval Date: 01419 | Expiration Date: | | | | | | | | |
| E mail Address: steven mackal@hn.com | Conditions of Approval: | | | | | | | | | |
| L-man Address. steven.moskat@pp.com | Conditions of Approval. | Attached | | | | | | | | |
| Date: August 5, 2015 Phone: 505-326-9497 | | | | | | | | | | |
| * Attach Additional Sheets If Necessary | 1500771277 | | | | | | | | | |
| HUS/ | 01151525 | | | | | | | | | |

BP AMERICA PRODUCTION COMPANY

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GCU 228E – 95 BBL BGT (TANK ID: A) RELEASE CLEANUP API #: 30-045-25448

Legal Description: (Unit Letter F, Sec. 21 -T28N -R12W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

- March 24, 2015: BP begins closure of 95 barrel below-grade tank (BGT) at the site. A five (5) point composite sample (PCS) was collected directly beneath the BGT position at approximately five (5) feet (ft.) below grade (B.G.) after its removal from the subsurface [5PC-TB @ 5' (95)]. No apparent evidence of a release was observed from the BGT bottom depth.
- 2. March 25, 2015: Preliminary lab results indicated the following results for 5PC-TB @ 5' (95);

Total Petroleum Hydrocarbons (**TPH**) using US EPA Method 8015B = 610 mg/Kg Benzene using US EPA Method 8021B = not detected (**ND**) at reporting limits of 0.042 mg/Kg Total benzene, toluene, ethylbenzene, total xylenes (**BTEX**) using US EPA Method 8021B = ND at reporting limits of less than 0.084 mg/Kg Chloride using US EPA Method 300.0 = ND at reporting limits of 30 mg/Kg

- 3. March 26, 2015: To determine vertical extent of hydrocarbon impacts, a test hole was advanced beneath the center of BGT bottom position and sampled at eight (8) ft. B.G. [TH1 @ 8' (95)] for TPH 8015B only.
- 4. March 27, 2015: Preliminary lab results indicated the following results for 5PC-EB @ 8' (95);

TPH using US EPA Method 8015B = ND at reporting limits of less than 9.8 mg/Kg

- 5. March 30, 2015: Approximately fifteen (15) cubic yards of soils were excavated beneath the BGT and transported to Envirotech's landfarm. Excavation dimensions were approximately 12 ft. X 12 ft. X 3 ft. depth. Subsequent composite samples were collected to confirm the vertical and lateral extent of hydrocarbon impacts [vertical 5PC-EB @ 8' (95); lateral 4PC-SW @ 7' (95)].
- 6. March 31, 2015: Preliminary lab results indicated the following results for 5PC-EB@8'(95);

TPH using US EPA Method 8015B = ND at reporting limits of less than 9.8 mg/Kg Benzene using US EPA Method 8021B = ND at reporting limits of 0.038 mg/Kg BTEX using US EPA Method 8021B = ND at reporting limits of less than 0.077 mg/Kg Chloride using US EPA Method 300.0 = ND at reporting limits of 30 mg/Kg

Preliminary lab results indicated the following results for 4PC-SW @ 7' (95);

TPH using US EPA Method 8015B = ND at reporting limits of less than 9.7 mg/Kg Benzene using US EPA Method 8021B = ND at reporting limits of 0.036 mg/Kg BTEX using US EPA Method 8021B = ND at reporting limits of less than 0.072 mg/Kg Chloride using US EPA Method 300.0 = ND at reporting limits of 30 mg/Kg

| | P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | | | | | | | | | | |
|--|--|---|--|---|--|---|---|--|---|--|--|
| TILLU NLFUNI. | (circle one): BG | T CONFIRMATION | / RELEASE INVESTI | GATION / | OTHER: | | PAGE #: | 1 | of | | |
| SITE INFORMATIO | N: SITE NA | ME: GCU # | 228E | | | [| DATE STARTED | 03 | /26/15 | | |
| QUAD/UNIT: F SEC: 21 TW | P: 28N RNG | <u>а: 12W рм</u> | NM CNT | Y: SJ | ST: | IM | DATE FINISHED | 03 | /31/15 | | |
| 1/4 -1/4/FOOTAGE: 2,320'N / 1 LEASE #: SF078106 | PROD. FORMAT | ION: DK C | TYPE: FEDERAL S ONTRACTOR: M | _ / STATE TRIKE IBF - D. | / FEE / INDIA HAGA | AN E | ENVIRONMENTA SPECIALIST(S): | AL | NJV | | |
| REFERENCE POIN | JT: WELL | Head (W.H.) GPS | S COORD .: | 36.648 | 66 X 108.1 [,] | 1990 | GLI | ELEV.: | 5,544' | | |
| 1) 95 BGT (SW/DB) | GPS COC | ORD.: 36 | 6.64879 X 108. | 11948 | DIST | ANCE/BEARIN | IG FROM W.H.: | 140', | N82E | | |
| 2) | GPS COC | RD.: | | | DISTA | ANCE/BEARIN | IG FROM W.H.: | | | | |
| 3) | GPS COC |)RD.: | | | DISTA | ANCE/BEARIN | IG FROM W.H.: | | | | |
| 4) | GPS COC | RD.: | | | DISTA | ANCE/BEARIN | IG FROM W.H.: | | | | |
| SAMPLING DATA: | CHAIN OF CUST | ODY RECORD(S) # (| OR LAB USED: | HALI | - | | | | OV READ (ppr | | |
| 1) SAMPLE ID: TH1@8' | (95) SAM | IPLE DATE: 03/26 | 115 SAMPLE TIME: | 0845 | LAB ANALYSIS: | | TPH (8015E | 3) | N | | |
| 2) SAMPLE ID: 5PC - EB@ | 9 8' (95) SAM | MPLE DATE: 03/30 | /15 SAMPLE TIME: | 1058 | LAB ANALYSIS: | 8015E | 3/8021B/300 | 0.0 (CI) | N | | |
| 3) SAMPLE ID: 4PC - SW @ | 7' (95) SAM | IPLE DATE: 03/30 | /15 SAMPLE TIME: | 1101 | LAB ANALYSIS: | 8015E | 3/8021B/300 | 0.0 (CI) | N | | |
| 4) SAMPLE ID: | SAM | IPLE DATE: | SAMPLE TIME: | | LAB ANALYSIS: | | | | | | |
| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY / <u>SLIGHTLY MOIST</u> MOIST SAMPLE TYPE: <u>GRAB</u> / <u>COMPOSITE</u> JSCOLORATION/STAINING OBSERVED: YES | LOOSE <u>(FIRM)</u> DEN / WET / SATURATED / SL # OF PTS. (NO) EXPLANATION - | SE / VERY DENSE JPER SATURATED 5 | HC ODOR DETECTED | D: YES/NO | EXPLANATION | EXPLANAT | 70N | | | | |
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| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY (SLIGHTLYMOIST) MOIST SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATIC APPARENT EVIDENCE OF A RELEASE OBSER EQUIPMENT SET OVER RECLAIMED ARE/ DITHER: CONFIRMATION SAMPLE GRE SOILS EXCAVATED & TRANSPORTED SOIL IMPACT DIMENSION ESTIMATIC DEPTH TO GROUNDWATER: <50' SITE SKETCH | LOOSE <u>(FIRM)</u> DEN- /WET / SATURATED / SU /WET / SATURATED / S | SE / VERY DENSE JPER SATURATED 5 RITY OF EQUIPMENT ED : YES NO EXPL IATION - RE PLAN STAND/ MESA FACILITY. : X 12 DURCE: >1,000 : off (on sit TO SEPARATOR | HC ODOR DETECTED ANY AREAS DISPLAY E YES NO EXPLANA ANATION: ARD FOR TPH (610 INTERPRETED AS ft. X MEAREST SURFA I PLOT PL TH1 X X X T | D: YES NO /ING WETNE ITION mg/Kg). T MON REP(ft. KCE WATER ft. KCE WATER | EXPLANATION SS: YES NO EST HOLE AD DRTABLE REL EXCAVATIO (Cle: attached N | EXPLANAT EASE (ba DN ESTIN NMOCD OWI CA OWI CA TIME: VO REF PK: D I | TON | W GRADE ted soils c : Yards) : STD: NA DATE: L. NC | E. IMPAC alc. qty). 15 100 PPPM RF = ppm RF = DTES | | |
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| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY (SLIGHTLYMOIST) MOIST SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATIC APPARENT EVIDENCE OF A RELEASE OBSEF EQUIPMENT SET OVER RECLAIMED ARE/ DITHER: CONFIRMATION SAMPLE GRE SOILS EXCAVATED & TRANSPORTED SOIL IMPACT DIMENSION ESTIMATIC DEPTH TO GROUNDWATER: <50' SITE SKETCH | LOOSE <u>(FIRM)</u> DEN- /WET / SATURATED / SU /WET / SATURATED / SU /W | SE / VERY DENSE JPER SATURATED 5 RITY OF EQUIPMENT ED : YES NO EXPL IATION - RE PLAN STAND MESA FACILITY. X 12 DURCE: >1,000 : off on sit FORMER FENCE FORMER FENCE | HC ODOR DETECTED ANY AREAS DISPLAY E YES NO EXPLANA ANATION: ARD FOR TPH (610 INTERPRETED AS ft. X MEAREST SURFA e PLOT PL TH1 | D: YES NO /ING WETNE | EXPLANATION SS: YES NO EST HOLE AD DRTABLE REL EXCAVATION CIE: attached N | EXPLANAT EXPLANAT EASE (ba DN ESTIM NMOCD OVM CA OVM CA TIME: I WO REF PK: PJ 3 Perr OCE | TON | W GRADE ted soils c Yards) : STD: NA DATE: L. NC 01BGT 06/1 s): 11/1 | E. IMPAC alc. qty). 15 100 PPM RF = ppm NA DTES 2 4/10 8/14 | | |
| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY (SLIGHTLYMOIST) MOIST, SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATIC APPARENT EVIDENCE OF A RELEASE OBSEF EQUIPMENT SET OVER RECLAIMED ARE/ OTHER: CONFIRMATION SAMPLE GRE SOILS EXCAVATED & TRANSPORTED SOIL IMPACT DIMENSION ESTIMATIC DEPTH TO GROUNDWATER: | LOOSE <u>(FIRM)</u> DEN- /WET / SATURATED / SU /WET / SATURATED / SU /W | SE / VERY DENSE JPER SATURATED 5 RITY OF EQUIPMENT ED : YES NO EXPL ATION - RE PLAN STAND/ MESA FACILITY. X 12 DURCE: >1,000 : off / on sit TO SEPARATOR | HC ODOR DETECTED ANY AREAS DISPLAY E YES NO EXPLANA ANATION: ARD FOR TPH (610 INTERPRETED AS ft. X T. NEAREST SURFA REPLOT PL TH1 | D: YES NO /ING WETNE TION mg/Kg). T NON REP(ft. ft | EXPLANATION SS: YES NO EST HOLE AD DRTABLE REL EXCAVATION (Cle: attached N | EXPLANAT EASE (ba DN ESTIN NMOCD OVM CA OVM CA OVM CA OVM CA TIME: I WO REF PJ 3 Perr OCE Tank I D | TON TO 8 FT. BELO sed on impact MATION (Cubic TPH CLOSURE : LIB. READ. = LIB. GAS = NA am/pm VISCEL : : : : : : : : : : : : : | W GRADE ted soils c Yards) : STD: NA DATE: DATE: CO1BGT 01BGT 06/1 panic Vapor I is per millior | E. IMPAC alc. qty). 15 100 PPM RF = ppm RF = ppm RF = 2 NA DTES 2 2 4/10 8/14 Veter | | |
| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY (SLIGHTLYMOIST) MOIST, SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATIC APPARENT EVIDENCE OF A RELEASE OBSEF EQUIPMENT SET OVER RECLAIMED ARE/ DITHER: CONFIRMATION SAMPLE GRE SOILS EXCAVATED & TRANSPORTED SOIL IMPACT DIMENSION ESTIMATIC DEPTH TO GROUNDWATER: <50' SITE SKETCH | LOOSE <u>(FIRM)</u> DEN- /WET / SATURATED / SU # OF PTS | SE / VERY DENSE JPER SATURATED 5 RITY OF EQUIPMENT ED : YES NO EXPL ATION - RE PLAN STAND MESA FACILITY. X 12 DURCE: >1,000 : off on sit FORMER FENCE POSITION | HC ODOR DETECTED ANY AREAS DISPLAY E YES NO EXPLANA ANATION: ARD FOR TPH (610 INTERPRETED AS ft. X MEAREST SURFA e PLOT PL TH1 X X X T FORMER BERM POSITION | D: YES NO /ING WETNE | EXPLANATION SS: YES NO EST HOLE AD DRTABLE REL EXCAVATION CIE: attached N | EXPLANAT EASE (ba DN ESTIM NMOCD OVM CA OVM CA OVM CA TIME: I WO REF PK: PJ # Perr OCE Tank ID A | TON - TO 8 FT. BELO sed on impact MATION (Cubic TPH CLOSURE : ILB. READ. = ILB. GAS = MA am/pm VIISCEL : : : : : : : : : : : : : | W GRADE ted soils c : Yards) : STD: NA DATE: DATE: 01BGT 06/1 011 01BGT 06/1 011 01 01 01 01 01 01 01 01 | E. IMPAC alc. qty). 15 100 PPM RF = ppm NA DTES 2 4/10 8/14 Veter | | |
| CONSISTENCY (NON COHESIVE SOILS): MOISTURE: DRY (SLIGHTLYMOIST) MOIST, SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVED: YES SITE OBSERVATIC APPARENT EVIDENCE OF A RELEASE OBSEF EQUIPMENT SET OVER RECLAIMED ARE/ OTHER: CONFIRMATION SAMPLE GRE SOILS EXCAVATED & TRANSPORTED SOIL IMPACT DIMENSION ESTIMATIC DEPTH TO GROUNDWATER: <50' SITE SKETCH | LOOSE <u>(FIRM)</u> DEN: / WET / SATURATED / SU # OF PTS NO EXPLANATION - DNS: LOST INTEG RVED AND/OR OCCURR A: YES NO EXPLAN CATER THAN CLOSU D TO BP'S CROUCH DN: ff NEAREST WATER SC BGT Located TO PROD. TANK 1 OF 4 POINT SIDEW/ COMPOSITE SAMPL ~ 7 FT. B.G. | SE / VERY DENSE JPER SATURATED 5 RITY OF EQUIPMENT ED : YES NO EXPL ATION - RE PLAN STAND/ MESA FACILITY. X 12 DURCE: >1,000 : off / on sit TO SEPARATOR | HC ODOR DETECTED ANY AREAS DISPLAY E YES NO EXPLANA ANATION: ARD FOR TPH (610 INTERPRETED AS ft. X3 MEAREST SURFA TH1 X X X T FORMER BERM POSITION | D: YES NO /ING WETNE ITION mg/Kg). T NON REP(ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER ft. .CE WATER | EXPLANATION SS: YES NO EST HOLE ADY DRTABLE REL EXCAVATION CIE: attached N CIE: attached N | EXPLANAT EASE (ba DN ESTIN NMOCD OVM CA OVM CA OVM CA OVM CA TIME: I WO REF PK: PJ 3 Perr OCC Tank I A I | TON - TO 8 FT. BELO sed on impact MATION (Cubic TPH CLOSURE : LIB. READ. = LIB. GAS = NA am/pm VISCEL : : : : : : : : : : : : : | W GRADE ted soils c : Yards) : STD: NA DATE: DATE: DATE: 01BGT 06/1 01BGT visible: Y Visible: Y | E. IMPAC alc. qty). 15 100 PPM RF = ppm RF = ppm RF = 2 NA DTES 2 4/10 8/14 Meter / N | | |

revised: 11/26/13

Analytical Report Lab Order 1503C72

Date Reported: 3/30/2015

Hall Environmental Analysis Laboratory, Inc.

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| CLIENT: | Blagg Engineering | Client Sample ID: TH1 @ 8' (95) | | | | | | | | | | |
|--------------------------------|------------------------|---------------------------------|----------|------------|---------------------------------|-----------------------|-------|--|--|--|--|--|
| Project: | GCU #228E | | | Collection | n Date: 3/2 | 26/2015 8:45:00 AM | | | | | | |
| Lab ID: | 1503C72-001 | Matrix: | SOIL | Receive | ived Date: 3/27/2015 7:30:00 AM | | | | | | | |
| Analyses | | Result | RL (| Qual Units | DF | Date Analyzed | Batch | | | | | |
| EPA METHOD 8015D: DIESEL RANGE | | E ORGANICS | | | | Analyst | BCN | | | | | |
| Diesel Ra | ange Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 3/27/2015 11:41:35 AM | 18374 | | | | | |
| Motor Oil | Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 3/27/2015 11:41:35 AM | 18374 | | | | | |
| Surr: D | NOP | 97.4 | 63.5-128 | %REC | 1 | 3/27/2015 11:41:35 AM | 18374 | | | | | |
| EPA MET | HOD 8015D: GASOLINE RA | NGE | | | | Analyst | NSB | | | | | |
| Gasoline | Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 3/27/2015 9:26:13 AM | 18358 | | | | | |
| Surr: E | BFB | 91.4 | 80-120 | %REC | 1 | 3/27/2015 9:26:13 AM | 18358 | | | | | |

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

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Metho | od Blank | | |
|-------------|---|---|--|--|-------------|--|--|
| | Е | 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 | Page 1 of 3 | | |
| | 0 | RSD is greater than RSDlimit | Р | Sample pH Not In Range | ruge rors | | |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | | | |
| | S | Spike Recovery outside accepted recovery limits | | | | | |
| | | | | | | | |

QC SUMMARY REPORT

| Hall | Environmental | Analysis | Laborat | tory, | Inc. |
|------|---------------|----------|---------|-------|------|
| | | • | | • / | |

Client: Blagg Engineering

× 1 *

Project: GCU #228E

| Sample ID MB-18374 | SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | | |
|--------------------------------|--|---------------------------|------------------------------|--|--|--|--|--|--|--|
| Client ID: PBS | Batch ID: 18374 | RunNo: 25115 | | | | | | | | |
| Prep Date: 3/27/2015 | Analysis Date: 3/27/2015 | SeqNo: 741645 | 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 | 9.4 10.00 | 94.3 63.5 | 128 | | | | | | | |
| Sample ID LCS-18374 | SampType: LCS | TestCode: EPA Method | 8015D: Diesel Range Organics | | | | | | | |
| Client ID: LCSS | Batch ID: 18374 | RunNo: 25115 | | | | | | | | |
| Prep Date: 3/27/2015 | Analysis Date: 3/27/2015 | SeqNo: 741646 | Units: mg/Kg | | | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | | | |
| Diesel Range Organics (DRO) | 43 10 50.00 | 0 86.6 67.8 | 130 | | | | | | | |
| Surr: DNOP | 4.9 5.000 | 97.1 63.5 | 128 | | | | | | | |
| Sample ID MB-18350 | SampType: MBLK | TestCode: EPA Method | 8015D: Diesel Range Organics | | | | | | | |
| Client ID: PBS | Batch ID: 18350 | RunNo: 25115 | | | | | | | | |
| Prep Date: 3/26/2015 | Analysis Date: 3/27/2015 | SeqNo: 741755 | Units: %REC | | | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | | | |
| Surr: DNOP | 9.4 10.00 | 93.8 63.5 | 128 | | | | | | | |
| Sample ID LCS-18350 | SampType: LCS | TestCode: EPA Method | 8015D: Diesel Range Organics | | | | | | | |
| Client ID: LCSS | Batch ID: 18350 | RunNo: 25115 | | | | | | | | |
| Prep Date: 3/26/2015 | Analysis Date: 3/27/2015 | SeqNo: 741859 | Units: %REC | | | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | | | |
| Surr: DNOP | 5.0 5.000 | 99.6 63.5 | 128 | | | | | | | |

Qualifiers:

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

Page 2 of 3

30-Mar-15

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WO#: 1503C72

30-Mar-15

| Client: E Project: C | lagg Engineering CU #228E | | | | | | | | | |
|--|------------------------------|--------|-----------|--------------|----------|-------------|-------------|------------|----------|------|
| Sample ID MB-1835 | SampTy | pe: ME | BLK | Tes | tCode: E | PA Method | 8015D: Gas | oline Rang | e | |
| Client ID: PBS | Batch | ID: 18 | 358 | RunNo: 25120 | | | | | | |
| Prep Date: 3/26/201 | 5 Analysis Da | te: 3/ | 27/2015 | 5 | 42138 | Units: mg/l | ٢g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (Surr: BFB | GRO) ND 970 | 5.0 | 1000 | | 96.9 | 80 | 120 | | | |
| Sample ID LCS-1835 | 8 SampTy | pe: LC | s | Tes | tCode: E | PA Method | 8015D: Gase | oline Rang | e | |
| Client ID: LCSS | Batch I | D: 18 | 358 | F | RunNo: 2 | 5120 | | | | |
| Prep Date: 3/26/201 | 5 Analysis Da | te: 3/ | 27/2015 | S | SeqNo: 7 | 42139 | Units: mg/k | ٢g | | |
| 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 | 64 | 130 | | | |
| Surr: BFB | 870 | | 1000 | | 86.6 | 80 | 120 | | | |

Qualifiers:

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

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

| Client Name: BLAGG | Work Order Numbe | r: 1503C72 | | RcptNo: | 1 |
|--|--|-----------------------------------|--|---------------------------------|---------------------|
| Received by/date: CM7 63/27 | 115 | | | | |
| Logged By: Anne Thorne | 3/27/2015 7:30:00 AM | Л | anne Han | _ | |
| Completed By: Anne Thorne | 3/27/2015 | | Ann. M. | | |
| Reviewed By: | 13/24/15 | | Carle Sim | | |
| Chain of Custody | 0-10-10 | | | | |
| 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 sample | es? | Yes 🖌 | No 🗌 | NA 🗌 | |
| 5. Were all samples received at a temperat | ure 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 te | st(s)? | Yes 🔽 | No 🗌 | | |
| 8. Are samples (except VOA and ONG) pro | perly 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 br | oken? | Yes | No 🗹 | # of processed | |
| | | | | bottles checked | |
| 12. Does paperwork match bottle labels? | | Yes 🖌 | No 🗌 | for pH: (<2 o | r >12 unless noted) |
| 13 Are matrices correctly identified on Chair | of Custody? | Yes 🗸 | No 🗌 | Adjusted? | |
| 14. Is it clear what analyses were requested? | | Yes 🗹 | No 🗌 | | |
| 15. Were all holding times able to be met? | | Yes 🔽 | No 🗌 | Checked by: | |
| (If no, notify customer for authorization.) | | | | | |
| Special Handling (if applicable) | | | | | |
| 16. Was client notified of all discrepancies w | th this order? | Yes | No | NA 🗹 | |
| Person Notified: | Date | | ····· | | |
| By Whom: | Via: | eMail F | Phone 🗌 Fax | In Person | |
| Regarding: | | | | | |
| Client Instructions: | The conflict control of the second control of the sec | has constant to the second second | an a | to other characteristic and the | |
| 17. Additional remarks: | | an erar de er e | a na marco capacia dia ju | | 1 |
| 18. Cooler Information | | | | | |
| Cooler No Temp % Condition | Seal Intact Seal No | Seal Date | Signed By | | |

Page 1 of 1

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Good

Yes

| CI | nain-c | of-Cus | tody Record | Turn-Around 1 | ime: | SAME | | | | ŀ | 44 | E | E | NV | /16 | 20 | NI | MF | NT | `A | | |
|----------------|--------|------------|-------------------|-------------------------|----------------------|---|---|------------------|-----------|-----------|-----------|-------------------|-----------|-------------------|------------|-----------|-----------|--------------|-------|-----------|------------|--|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | . Rush _ | DAY | | 274 marca | F | | | AL | Y | SIS | SL | A | BO | R/ | ATC | DR | Y | |
| | | | | Project Name: | | | | | | - | ww | w.ha | llen | viro | nme | ntal | .com | | | | | |
| Mailing Ac | dress: | P.O. BO | X 87 | | GCU # 228 | BE | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | | | |
| Phone #: | | (505) 63 | 2-1199 | | | | | Analysis Request | | | | | | | | | | | | | | |
| email or F | ax#: | | | Project Manag | ier: | , <u>, , , , , , , , , , , , , , , , , , </u> | | | | | | | | () | | | | | 1) | | | |
| QA/QC Package: | | | NELSON VE | ELEZ | (218) | (yluo | MRO) | | | S) | | 04,50 | PCB's | | | er - 300, | | | | | | |
| Accreditat | ion: | | | Sampler: NELSON VELEZ | | Gas | RO / | 1) | 1) | SIM | | 0 ₂ ,F | 082 | | | wat | | | nple | | | |
| | | D Other | | On Ice: | Yes | 🖾 No | TMB' | LPH (| 0/D | 118. | 504. | 3270 | | 0 ₃ ,N | s / 8 | | (A) | 0.00 | | | e sal | |
| | ype) | | | Sample Temp | frature: Z | 3 | ·+ Ш | + Ш | (GRC | po | po | or § | etals | CI'N(| cide | A) | i-VC | il - 3(| | e | osit | |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO 1503072 | BTEX + MTB | BTEX + MTB | TPH 8015B | TPH (Meth | EDB (Meth | PAH (8310 | RCRA 8 Me | Anions (F,C | 8081 Pesti | 8260B (VO | 8270 (Sem | Chloride (so | | Grab samp | 5 pt. comp | |
| 3/26/15 | 0845 | SOIL | TH1 @ 8' (95) | 4 oz 1 | Cool | -001 | | | V | | | | | | | | | | | V | - | |
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| | | | | | | | | - | | | | | | - | | | - | | | - | | |
| Date: | Time | Relinquish | ed by: | Received by: | | Date Time | Ren | nark | S: | | | | 1 | | 1 | | | | | | | |
| 3/26/15 | 1432 | 90 | nUJ | Christer | Nalle | 3/210/15/143d | BI | | RECT | | O BF |): | uuet. | Form | alaat | 0.0 | INA O | 7401 | | | | |
| Date: | Time: | Relinquish | ed by: U | Received by: | 1 | Date Time | Jei | fere | ace, | 200 t | iner | 57 CC | ourt, | rarm | Pa | un, r | vivi 8 | 7401 FVU | 11867 | 7 | | |
| 5/20/15 | 1720 | 111t | -Walte | V TO | (3 | 27/15 0730 | ine ine | ., crei | INC T | | | 10 | | | r a | , ney | | | ,1001 | - | | |

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|-----------|-----------------------|-------------|-----------|--------------|-----------|------------------------|-------|
| | | | | | | Lab Order 1503D64 | |
| Hall Er | nvironmental Analy | ysis Labora | atory, In | IC. | | Date Reported: 4/1/201 | 5 |
| CLIENT: | Blagg Engineering | | | Client Sampl | e ID: 5 1 | PC-EB @ 8' (95) | |
| Project: | GCU #228E | | | Collection 1 | Date: 3/3 | 30/2015 10:58:00 AM | |
| Lab ID: | 1503D64-001 | Matrix: | SOIL | Received I | Date: 3/3 | 31/2015 8:45:00 AM | |
| Analyses | | Result | RL | Qual Units | DF | Date Analyzed | Batch |
| EPA MET | HOD 8015D: DIESEL RAN | GE ORGANICS | | | | Analyst | JME |
| Diesel Ra | ange Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 3/31/2015 12:45:53 PM | 18433 |
| Motor Oil | Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 3/31/2015 12:45:53 PM | 18433 |
| Surr: E | NOP | 99.5 | 63.5-128 | %REC | 1 | 3/31/2015 12:45:53 PM | 18433 |
| EPA MET | HOD 8015D: GASOLINE R | ANGE | | | | Analyst | NSB |
| Gasoline | Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 3/31/2015 10:55:42 AM | 18423 |

80-120

0.038

0.038

0.038

0.077

80-120

30

101

ND

ND

ND

ND

107

ND

%REC

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%REC

mg/Kg

1

1

1

1

1

1

20

| Refe | r to th | ne QC Summary report and sample login check | dist for flagg | ged QC data and preservation infor | mation |
|-------------|---------|---|----------------|---|---------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Metho | d Blank |
| | E | Value above quantitation range | Н | Holding times for preparation or analysis | exceede |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit | Pag |
| | Ο | RSD is greater than RSDlimit | Р | Sample pH Not In Range | 1 45 |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |

Spike Recovery outside accepted recovery limits

Hall En

1

Surr: BFB

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

S

3/31/2015 10:55:42 AM 18423

3/31/2015 11:06:28 AM 18435

Analyst: NSB

Analyst: SRM

Analytical Report

ysis exceeded Page 1 of 6

p ng

Analytical Report Lab Order 1503D64 Date Reported: 4/1/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1503D64-002

Project: GCU #228E

Lab ID:

۰.

Client Sample ID: 4 PC-SW @ 7' (95) Collection Date: 3/30/2015 11:01:00 AM Received Date: 3/31/2015 8:45:00 AM

| Analyses | Result | RL Q | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------|----------|----------|------------|----|-----------------------|-------|
| EPA METHOD 8015D: DIESEL RANGE | ORGANICS | | | | Analyst | JME |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 3/31/2015 12:24:27 PM | 18433 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 3/31/2015 12:24:27 PM | 18433 |
| Surr: DNOP | 95.0 | 63.5-128 | %REC | 1 | 3/31/2015 12:24:27 PM | 18433 |
| EPA METHOD 8015D: GASOLINE RAM | IGE | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | mg/Kg | 1 | 3/31/2015 11:24:29 AM | 18423 |
| Surr: BFB | 92.6 | 80-120 | %REC | 1 | 3/31/2015 11:24:29 AM | 18423 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.036 | mg/Kg | 1 | 3/31/2015 11:24:29 AM | 18423 |
| Toluene | ND | 0.036 | mg/Kg | 1 | 3/31/2015 11:24:29 AM | 18423 |
| Ethylbenzene | ND | 0.036 | mg/Kg | 1 | 3/31/2015 11:24:29 AM | 18423 |
| Xylenes, Total | ND | 0.072 | mg/Kg | 1 | 3/31/2015 11:24:29 AM | 18423 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | %REC | 1 | 3/31/2015 11:24:29 AM | 18423 |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | SRM |
| Chloride | ND | 30 | mg/Kg | 20 | 3/31/2015 11:18:53 AM | 18435 |

Matrix: SOIL

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

| Oualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Metho | d Blank |
|--------------------|---|---|----|---|--------------|
| 2 | Е | Value above quantitation range | Н | Holding times for preparation or analysis | exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit | Page 2 of 6 |
| | 0 | RSD is greater than RSDlimit | Р | Sample pH Not In Range | 1 age 2 01 0 |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit | |
| | S | Spike Recovery outside accepted recovery limits | | | |
| | | | | | |

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU #228E

| Sample ID MB-18435 | SampType: MBLK | TestCode: EPA Method | 300.0: Anions | |
|---|--|--|---|---------------|
| Client ID: PBS | Batch ID: 18435 | RunNo: 25209 | | |
| Prep Date: 3/31/2015 | Analysis Date: 3/31/2015 | SeqNo: 745174 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| | | | | |
| Sample ID LCS-18435 | SampType: LCS | TestCode: EPA Method | 300.0: Anions | |
| Sample ID LCS-18435 Client ID: LCSS | SampType: LCS Batch ID: 18435 | TestCode: EPA Method RunNo: 25209 | 300.0: Anions | |
| Sample ID LCS-18435 Client ID: LCSS Prep Date: 3/31/2015 | SampType: LCS Batch ID: 18435 Analysis Date: 3/31/2015 | TestCode: EPA Method RunNo: 25209 SeqNo: 745175 | 300.0: Anions Units: mg/Kg | |
| Sample ID LCS-18435 Client ID: LCSS Prep Date: 3/31/2015 Analyte | SampType: LCS Batch ID: 18435 Analysis Date: 3/31/2015 Result PQL SPK value | TestCode: EPA Method RunNo: 25209 SeqNo: 745175 SPK Ref Val %REC LowLimit | 300.0: Anions Units: mg/Kg HighLimit %RPD | RPDLimit Qual |

Qualifiers:

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

Page 3 of 6

WO#: 1503D64

01-Apr-15

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01-Apr-15

| Client: | Blagg E | ngineering | | | | | | | | | |
|---------------------|-------------|------------|----------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|
| Project: | GCU #2 | 28E | | | | | | | | | |
| Sample ID MB- | -18433 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8015D: Diese | el Range (| Organics | |
| Client ID: PBS | S | Batch | n ID: 18 | 433 | F | RunNo: 2 | 5173 | | | | |
| Prep Date: 3/3 | 31/2015 | Analysis D | ate: 3/ | 31/2015 | 5 | eqNo: 7 | 44150 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organi | ics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Org | anics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | | 9.1 | | 10.00 | | 91.4 | 63.5 | 128 | | | |
| Sample ID LCS | 6-18433 | SampT | ype: LC | S | Tes | Code: EF | PA Method | 8015D: Diese | el Range C | Organics | |
| Client ID: LCS | SS | Batch | n ID: 18 | 433 | F | unNo: 2 | 5173 | | | | |
| Prep Date: 3/3 | 31/2015 | Analysis D | ate: 3/ | 31/2015 | 5 | eqNo: 74 | 44151 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organi | ics (DRO) | 43 | 10 | 50.00 | 0 | 86.9 | 67.8 | 130 | | | |
| Surr: DNOP | | 4.8 | | 5.000 | | 95.9 | 63.5 | 128 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH Not In Range
- RL

Page 4 of 6

Reporting Detection Limit

ND

920

5.0

1000

WO#: 1503D64

01-Apr-15

| Client: Project: | Blagg Er GCU #2 | ngineering 28E | | | | | | | | | | | | |
|---------------------|--------------------------------------|------------------------------|----------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|--|--|--|
| Sample ID | LCS-18423 | Samp | Гуре: LC | S | Tes | tCode: El | PA Method | 8015D: Gaso | line Rang | e | | | | |
| Client ID: | LCSS | Batch ID: 18423 RunNo: 25192 | | | | | | | | | | | | |
| Prep Date: | 3/30/2015 | Analysis E | Date: 3/ | 31/2015 | 5 | SeqNo: 7 | 44986 | Units: mg/Kg | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Gasoline Rang | e Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 101 | 64 | 130 | | | | | | |
| Surr: BFB | | 970 | | 1000 | | 96.6 | 80 | 120 | | | | | | |
| Sample ID | MB-18423 | Samp | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 8015D: Gaso | line Rang | e | | | | |
| Client ID: | PBS | Batc | h ID: 18 | 423 | F | RunNo: 2 | 5192 | | | | | | | |
| Prep Date: | : 3/30/2015 Analysis Date: 3/31/2015 | | | | 5 | SeqNo: 7 | 44987 | Units: mg/K | g | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |

92.0

80

120

Gasoline Range Organics (GRO) Surr: BFB

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Qualifiers:

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

Page 5 of 6

Client: Blagg Engineering

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Project: GCU #228E

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|---|---|----------|-----------|-------------|-----------|-----------|---|-------|----------|------|
| Sample ID LCS-18423 SampType: LCS TestCode: EPA Method 8021B: Volatiles | | | | | | | | | | |
| Client ID: LCSS | Batc | h ID: 18 | 423 | F | RunNo: 2 | 5192 | | | | |
| Prep Date: 3/30/2015 | Analysis [| Date: 3/ | 31/2015 | 5 | SeqNo: 7 | 44994 | Units: mg/k | ٢g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.2 | 0.050 | 1.000 | 0 | 119 | 76.6 | 128 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 110 | 75 | 124 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 110 | 79.5 | 126 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 108 | 78.8 | 124 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 80 | 120 | | | |
| Sample ID MB-18423 | Samp | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
| Client ID: PBS | Batc | n ID: 18 | 423 | F | RunNo: 2 | 5192 | | | | |
| Prep Date: 3/30/2015 | Analysis E |)ate: 3/ | 31/2015 | S | SeqNo: 7 | 44995 | Units: mg/M | (g | | |
| 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 | | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | |

Qualifiers:

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

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1503D64 *01-Apr-15*

WO#:

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Hall Environmental Albı TEL: 505-345-3975 Website: www.ha | Analysis Laboratory 4901 Hawkins NE uquerque, NM 87109 FAX: 505-345-4107 illenvironmental.com | Sam | ple Log-In Cl | heck List |
|---|--|---|---|---|---------------------|
| Client Name: BLAGG | Work Order Number | 1503D64 | | RcptNo: | 1 |
| Received by/date: AS 03(3/1/5 | | | | | |
| Logged By: Anne Thorne | 3/31/2015 8:45:00 AM | | Anne Arm | ~ | |
| Completed By: Anne Thorne | 3/31/2015 | | anne Arm | ~ | |
| Reviewed By: | 03/31/15 | | | | |
| Chain of Custody | 0 // / | | | | |
| 1. Custody seals intact on sample bottles? | | Yes | No | Not Present V | |
| 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 | e of >0° C to 6.0°C | Yes 🖌 | No 🗌 | | |
| 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) prope | rly 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 brok | ken? | Yes | No 🗹 | # of processed | |
| | | | | bottles checked | |
| 12.Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No LI | (<2 of | r >12 unless noted) |
| 13. Are matrices correctly identified on Chain of | f Custody? | Yes 🗸 | No 🗌 | Adjusted? | |
| 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 | Checked by: | |
| Special Handling (if applicable) | | | | | |
| 16 Was client notified of all discrepancies with | this order? | Yes | No | NA | |
| Deress Malified | B.L. P | | | | |
| Person Notified: | | | | In Person | |
| Begarding: | Via. | | | | |
| Client Instructions: | and a start of the second of the start and the start and the second star | an ben fran it se ar an an and that the second | i hannan hala an 200 marta a si si sa an Anna an Anna an | er menter andre denket i er die er den andre er ster er die er | |

17. Additional remarks:

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18. Cooler Information

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

| CI | Chain-of-Custody Record | | Turn-Around | Time: | SAME | | | | н | | | E | NV | /TE | 20 | N | ME | NT | | | |
|----------------------|--|----------|---------------------------|-------------------------|----------------------|---------------------------------|---|------------------------------------|--------------|-------------|--------------|----------|----------|-----------|-----------|-----------|-----------|--------------|-----|----------|----------|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | Rush _ | DAY | | _ | | | N | AL | Y | SIS | S L | A | 30 | R/ | ATC | R | Y |
| | | | | Project Name | | | www.hallenvironmental.com | | | | | | | | | | | | | | |
| Mailing Ac | ddress: | P.O. BO | X 87 | G | CU # 27 | 28E | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | |
| Phone #: | | (505) 63 | 32-1199 | - | | | | Analysis Request | | | | | | | | | | | | | |
| email or F | ax#: | | | Project Manager: | | | | | | | | | | 4) | | | | 1) | | Τ | T |
| QA/QC Pace Standa | ckage: ard | | Level 4 (Full Validation) | NELSON VELEZ | | | 021B) | only) | (MRO) | | | 1S) | | PO4,50 | PCB's | | | ter - 300 | | | e |
| Accreditat | Accreditation: | | | Sampler: | NELSON VI | ELEZ 97V | 2% F | (Gas | BRO / | .1) | , | OSIN | | VO2, | 808 | | | / wat | | | dun |
| | NELAP Other | | | | XYes , | ⊡ No | | TPH | 0/0 | 418 | 504 | 827 | S | 03,1 | es / | | (A) | 000.0 | | | te se |
| | DD (Type) | | | Sample Temp | erature: /// | | | BE + | GR | hod | hod | 0 or | letal | CI,N | cicid | (YO | ni-V | oil - 3 | - | ple | bosi |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEALNO. | BTEX +-MH | BTEX + MT | TPH 80158 | TPH (Met | EDB (Met | PAH (831 | RCRA 8 N | Anions (F | 8081 Pest | 8260B (VI | 8270 (Ser | Chloride (s | - | Grab sam | Kpt. com |
| 3/30/15 | 1058 | SOIL | 5PC-EB @8'(95) | 402 - 1 | COOL | | | | V | | | | | | | | | V | | | Sh |
| | | | | | | | | | | | | | | | | | | | | | |
| 3/30/15 | 101 | SOIL | 4PC-5WE7'(95) | 402-1 | COOL | -202 | \bigvee | | \checkmark | | | | | | | | | \checkmark | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | _ | | | | | | | | | _ |
| | | | | | | | | | | | | | | | | | | | | | |
| Date: 3/30/15 | Date: Time: Relinquished by; 3/30/15/1445 | | | Received by: | 1 lalat | Date Time | Rer BI | nark LL DI | s: RECT | LYT | O BP | : | | - | | | | 7404 | | | |
| Date: 3/36/15 | Date: Time: Relinquished by: 135/15 1855 CMit, Waller | | | Received by. | 21 1 | Date Time 0.3/3///5 0.845 | Re | fere | nce # | : <u>2-</u> | inerg | y co | urt, | -arm | Pay | /key: | 2 | EV | HOI | BG | 72 |

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico 03/43-106_ Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

Form C-138

Revised March 12, 2007

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. Generator Name and Address: BP America Production Co. 200 Energy Court, Farmington, NM 87401 2. Originating Site: Gallegos Canyon Unit 228E - NW/4 Section 21, T28N, R12W pril 2015 3. Location of Material (Street Address, City, State or ULSTR): Gallegos Canyon Unit 228E - NW/4 Section 21, T28N, R12W Physical Address: 200 Energy Court, Farmington, NM 87401 Source and Description of Waste: Contaminated soil from a possible condensate or oil leak or spill from a below grade tank Estimated Volume 20 $\sqrt{y} d^3 / bbls$ Known Volume (to be entered by the operator at the end of the haul) / bbls GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 5. I, Jeff Peace gael, representative or authorized agent for BP America Production Company do hereby Generator Signature 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-Operator Use Only; Waste Acceptance Frequency Monthly Weekly Per Load exempt waste. 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, Jeff Peace gale, representative for BP America do hereby certify that Representative/Agent Signature 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. 6. Transporter: Strike Coulder **OCD** Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech Soil Remediation Facility / Permit No. NM 01-0011 Address of Facility: # 43 CR 7175, south of Bloomfield, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other Waste Acceptance Status: DENIED (Must Be Maintained As Permanent Record) APPROVED TITLE: Whiste Coordinator DATE: 4-1-15 PRINT NAME: 🗶

SIGNATURE:

mit

Surface Waste Management Facility Authorized Agent

TELEPHON 505-632-1782 FAX NO.: 505-632-1876 or 505-334-1003