| 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 |

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| Pit, Below-Grade Tank, or |
|---|
| 13102 Proposed Alternative Method Permit or Closure Plan Application |
| Type of action: Below grade tank registration |
| 4/5 - 11689 □ Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method □ Modification to an existing permit/or registration SEP 03 2015 |
| Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, |
| or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the |
| environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. |
| I. Operator: BP America Production Company OGRID #: 778 |
| |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name:GCU #245 |
| API Number: 3004511689 OCD Permit Number: |
| U/L or Qtr/Qtr <u>E</u> Section <u>36</u> Township <u>28N</u> Range <u>12W</u> County: <u>San Juan</u> |
| Center of Proposed Design: Latitude <u>36.62094</u> Longitude <u>-108.06738</u> NAD: □1927 ⊠ 1983 |
| Surface Owner: 🛛 Federal 🗋 State 🗋 Private 🗋 Tribal Trust or Indian Allotment |
| 2. Pit: Subsection F, G or J of 19.15.17.11 NMAC String-Reinforced Drilling Workover Workover Dermanent Emergency Cavitation Permanent Image: Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes Image: Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid String-Reinforced Miles Miles Miles Miles |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| |
| 3. M Relow grade tank: Subsection L of 10 15 17 11 NMAC TANK R |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water Tank Construction material: Steel |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water Tank Construction material: Steel |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Single walled/double bottomed; side walls not visible |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water Tank Construction material: Steel |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK B Volume: 95 bbl Type of fluid: Produced water Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Single walled/double bottomed; side walls not visible |

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| s. <u>Fencing</u> : Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) | |
|--|--------------------|
| Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) | hospital, |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet | |
| Alternate. Please specify | |
| 6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other | |
| Monthly inspections (If netting or screening is not physically feasible) | |
| | |
| Signs: Subsection C of 19.15.17.11 NMAC | |
| 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | |
| Signed in compliance with 19.15.16.8 NMAC | |
| 8. Variances and Exceptions: | No. IN |
| Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: | |
| Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 9. | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept | ptable source |
| material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | |
| General siting | |
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. | Yes No |
| - INM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ NA |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | Yes No |
| Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | Yes No |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | Yes No |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | Yes No |
| | |
| <u>Temporary Pit using Low Chloride Drilling Fluid</u> (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) (Applies to low chloride temporary pits.) | Yes No |

or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)
- Topographic map; Visual inspection (certification) of the proposed site

| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
|---|-----------------------|
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | Yes No |
| Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| Temporary Pit Non-low chloride drilling fluid | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | Yes No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| Permanent Pit or Multi-Well Fluid Management Pit | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa | 1997 - Contra 19 |
| lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of | |
| initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | Yes No |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| 10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dou attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC | cuments are 9 NMAC |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | |
| 11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC | |
| Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | |
| I reviously Approved Design (anach copy of design) Art runnoer or remnt runnoer | |

Oil Conservation Division

| ^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. | documents are |
|--|---------------------|
| Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment | 国内 公司合 |
| Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan | |
| Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization | |
| Monitoring and Inspection Plan Erosion Control Plan | |
| Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | |
| 13. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. | Sec. 1 |
| Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F | luid Management Pit |
| Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) | |
| On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial | Arts A.P. |
| Alternative Closure Method | Star he had |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| 15. | |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance. | |
| Ground water is less than 25 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ NA |
| Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ NA |
| Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | Yes No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | Yes No |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | □ Yes □ No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | |
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| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes No |
|---|--|
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | Yes No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | |
| Within a 100-year floodplain. - FEMA map | ☐ Yes ☐ No ☐ Yes ☐ No |
| 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure ple by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | 11 NMAC 15.17.11 NMAC |
| 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli Name (Print): Title: | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| 18. OCD Approval: □ Permit Application (including closure plan) ☑ Closure Plan (only) ☑ OCD Conditions (see attachment) OCD Representative Signature: ○ ○ ○ ○ ○ OCD Representative Signature: ○ ○ ○ ○ ○ | |
| Title: Compliance Office OCD Permit Number: | |
| ^{19.} Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC | |
| Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 7/11/2012 | |
| The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. | |

On-site Closure Location: Latitude

Oil Conservation Division

Longitude

-108.06738

36.62094

NAD: 1927 🛛 1983

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print):

Steve Moskal

Signature:

* 22.

annin

e-mail address: steven.moskal@bp.com

Title: Field Environmental Coordinator

Date: August 25, 2015

Telephone: (505) 326-9497

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>GCU #245</u> <u>API No. 3004511689</u> <u>Unit Letter E, Section 36, T28N, R12W</u>

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement. No notice was made due to misunderstanding of the BGT notice requirements at that time.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

No notice was made due to misunderstanding of the BGT notice requirements at that time.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)

- d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported to a storage area for sale and re-use.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

| Constituents | Testing Method 95 bbl BGT | Release Verification (mg/Kg) | Sample results |
|--------------|-------------------------------------|---------------------------------|----------------|
| Benzene | US EPA Method SW-846 8021B or 8260B | 0.2 | ND |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | ND |
| TPH | US EPA Method SW-846 418.1/8015B | 100 | 120/24 |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | 500 |

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

> Soil under the BGT was sampled for laboratory analysis of TPH and BTEX with results below the stated limits. Chloride levels are likely related to background concentrations.

- BP shall notify the division District III office of its results on form C-141.
 C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Laboratory results indicate no significant release has occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The BGT was replaced with an upgraded BGT and is still within the active well area.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

The BGT was replaced with an upgraded BGT and is still within the active well area.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

The BGT was replaced with an upgraded BGT and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The BGT was replaced with an upgraded BGT and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

BP will seed the area when the well is plugged and abandoned as part of final reclamation.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

BP will notify NMOCD when re-vegetation is successful.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.
 - Closure report on C-144 form is included.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

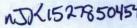
District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rele | ease Notifi | icatio | n and Co | orrective A | ction | i i Surk | 2.00 | | |
|---|---|---|--|--|---|--|---|---|---|---|---|--|
| | | | TION | | | OPERA' | | 1 | | al Danart | | Final Dana |
| Name of Co | omnanu: B | D | | A Date Stand State | | Contact: Ste | | (| | al Report | | Final Repo |
| | | | ington N | M 87401 | | | No.: 505-326-94 | 197 | 1 | - | | |
| Address: 200 Energy Court, Farmington, NM 87401 Facility Name: GCU #245 | | | | | | | be: Natural gas | and the second sec | 1111 | | - | |
| | | | | | | | Ser Ser | | | | | |
| Surface Owner: Fee Mineral Own | | | | | | Fee | | | API No | . 30045110 | 589 | |
| | | | | LOC | ATIO | N OF REI | LEASE | | | | | |
| Unit Letter E | Section 36 | Township 28N | Range 12W | Feet from the 1,850 | | /South Line | Feet from the 1,190 | East/W West | est Line | County: S | an Juar | 1 |
| | | Lati | itude_ <u>36</u> | 5.62094 | | _ Longitude | e <u>-108.06738</u> | | | | | |
| | | | | NA' | TURE | OF REL | EASE | | | | | |
| | | sate and prod | | | | | Release: Unknow | | | Recovered: U | | |
| Source of Re | elease: below | v grade tank - | - 95 bbl | 1. 1 - 1 - 1 × | | | Hour of Occurrent | | | | covery | : September |
| Was Immedi | ata Nation (| Vision 9 | | | | unknown If YES, To | W/ham? | | 21, 2011; | unknown | | |
| was minicul | ate Notice C | | Yes 🛛 | No 🗌 Not H | Required | 11 123, 10 | whom? | | | | | |
| By Whom? | and the second second | | | 100000 | | Date and H | Hour | Tot the | 1 Alexandre | Contraction of the | 1-5 | and the second |
| Was a Water | course Read | ched? | N. TOT | | 11.72 | | | the Water | course | 7 | | |
| | | | | | | If YES, VO | olume Impacting | the water | course. | | | |
| If a Watercou | urse was Im | pacted, Descr | Yes ⊠ ibe Fully.* | | 444 | | | | | - Celes | | |
| Describe Cau tank did not i Describe Are aboratory re thereby certi regulations a public health should their o or the environ | use of Proble indicate relevant a Affected a sults of sam ify that the i ll operators or the enviro operations h nment. In a | pacted, Descr em and Reme ease of conten and Cleanup / pling at 7.5' b nformation gi are required t ronment. The ave failed to a | dial Action ts at 5' bel Action Tak below grou iven above o report an acceptanc adequately DCD accep | * Taken.* Hydrocarbound surface demon ten.* Hydrocarbound surface demon tis true and com ad/or file certain the of a C-141 reprint investigate and | ocarbon in ace. Exca on impac onstrate c uplete to t release n port by th remediat | Fioral C mpacted soil of avation advan ted soil encou- contaminant co he best of my otifications are e NMOCD m re contaminati | -14 Final discovered during ced to 7.5' below untered during BC oncentration belo knowledge and underform correct arked as "Final R ion that pose a thir we the operator of OIL CON | Require ground s ground s GT removies w soil removies understand ctive action the action | of 95 bbl urface. al was exc nediation d that purs ons for rela- bes not reli- bound water poility for co | BGT (Tank guidelines. suant to NM eases which ieve the oper r, surface wa ompliance v | B). A subseq OCD r may en rator of iter, hu vith an | uent ules and ndanger f liability man health |
| Describe Cau tank did not i Describe Are laboratory re I hereby certi regulations a public health should their o or the environ federal, state, | use of Proble indicate relevant a Affected a sults of sam ify that the i ll operators or the enviro operations h nment. In a | pacted, Descr em and Reme case of conten and Cleanup / pling at 7.5' t nformation gi are required t ronment. The ave failed to a ddition, NMC | dial Action ts at 5' bel Action Tak below grou iven above o report an acceptanc adequately DCD accep | * Taken.* Hydrocarbound surface demon ten.* Hydrocarbound surface demon tis true and com ad/or file certain the of a C-141 reprint investigate and | ocarbon in ace. Exca on impac onstrate c uplete to t release n port by th remediat 1 report d | Fional C mpacted soil of avation advan ted soil encou- contaminant co he best of my otifications at e NMOCD m e contaminati loes not reliev | -14 Final discovered during ced to 7.5' below intered during BC oncentration belo knowledge and u nd perform correc iarked as "Final R ion that pose a thi the operator of OIL CON | Required ground s ground s GT removies www.soil removies understand ctive action teaport" do reat to gro responsib SERVA | of 95 bbl urface. al was exc nediation d that purs ons for releves not reliv ound water oility for co ATION | BGT (Tank guidelines. suant to NM eases which ieve the oper r, surface wa ompliance v | B). A subseq OCD r may en rator of iter, hu vith an | uent ules and ndanger f liability man health |
| Describe Cau tank did not i Describe Are laboratory re I hereby certi regulations a public health should their o or the enviro federal, state, Signature: | use of Proble indicate relevant a Affected a sults of sam ify that the i ll operators or the enviro operations h nment. In a , or local law | pacted, Descr em and Reme ease of content and Cleanup / pling at 7.5' h nformation gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu | dial Action ts at 5' bel Action Tak below grou iven above o report an acceptanc adequately DCD accep | * Taken.* Hydrocarbound surface demon ten.* Hydrocarbound surface demon tis true and com ad/or file certain the of a C-141 reprint investigate and | ocarbon in ace. Exca on impac onstrate c uplete to t release n port by th remediat 1 report d | Fional C mpacted soil of avation advan ted soil encou- contaminant co he best of my otifications at e NMOCD m e contaminati loes not reliev | -14 Final discovered during ced to 7.5' below untered during BC oncentration belo knowledge and u nd perform correct arked as "Final R ion that pose a that we the operator of | Required ground s ground s GT removies www.soil removies understand ctive action teaport" do reat to gro responsib SERVA | of 95 bbl urface. al was exc nediation d that purs ons for releves not reliv ound water oility for co ATION | BGT (Tank guidelines. suant to NM eases which ieve the oper r, surface wa ompliance v | B). A subseq OCD r may en rator of iter, hu vith an | uent ules and ndanger f liability man health |
| Describe Cau tank did not i Describe Are laboratory re I hereby certi regulations a public health should their of or the environ federal, state; Signature: Printed Name | use of Proble indicate rele a Affected a sults of sam ify that the i ll operators or the envir operations h nment. In a , or local law e: Steve Mo | pacted, Descr em and Reme ease of content and Cleanup / pling at 7.5' h nformation gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu | dial Action ts at 5' bel Action Tak below grou iven above o report an e acceptance adequately DCD accep ulations. | * Taken.* Hydrocarbound surface demon ten.* Hydrocarbound surface demon tis true and com ad/or file certain the of a C-141 reprint investigate and | ocarbon in ace. Exca on impac onstrate c mplete to t release n port by th remediat 1 report d | Fional C mpacted soil of avation advan ted soil encou- contaminant co he best of my otifications at e NMOCD m e contaminati loes not reliev | -141 Final discovered during ced to 7.5' below untered during BC oncentration belo knowledge and und perform correct arked as "Final R ion that pose a that we the operator of <u>OIL CON</u> Environmental S | Require ground s ground s GT removies w soil removies understand ctive action the action | of 95 bbl urface. al was exc nediation d that purs ons for releves not reliv ound water oility for co ATION | BGT (Tank cavated and guidelines. suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC | B). A subseq OCD r may en rator of iter, hu vith an | uent ules and ndanger f liability man health |
| Describe Cau tank did not i Describe Are laboratory re I hereby certi regulations a public health should their o or the environ federal, state, Signature: Printed Name | use of Proble indicate relevant a Affected a sults of sam ify that the i ill operators or the enviro operations h nment. In a or local law e: Steve Mo Environment | pacted, Descr em and Reme ease of content and Cleanup / pling at 7.5' h nformation gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu | dial Action ts at 5' bel Action Tak below grou iven above o report an acceptance adequately DCD accep ulations. | * Taken.* Hydrocarbound surface demon ten.* Hydrocarbound surface demon tis true and com ad/or file certain the of a C-141 reprint investigate and | ocarbon in ace. Exca on impac onstrate c mplete to t release n port by th remediat 1 report d | Fioral C mpacted soil of avation advan ted soil encou- contaminant co he best of my otifications are e NMOCD m e contamination toes not reliev Approved by | -141 Final discovered during ced to 7.5' below untered during BC oncentration belo knowledge and und perform correct arked as "Final R ion that pose a that we the operator of <u>OIL CON</u> Environmental S te: | Require ground s ground s GT removies w soil removies understand ctive action the action | al was exe nediation d that purs ons for rele bound water bility for co ATION | BGT (Tank cavated and guidelines. suant to NM eases which ieve the oper r, surface wa ompliance w DIVISIC | B). A subseq OCD r may en rator of iter, hu vith an <u></u> | uent ules and ndanger f liability man health |



| •••• | | GINEERING, INC. | |
|--|---|--|--|
| CLIENT: BP | API #: 3004511689 | | |
| | | OOMFIELD, NM 87413) 632-1199 | TANK ID (if applicble): B |
| FIELD REPORT: | (circle one): BGT CONFIRMATION / R SITE EQUIPME | ELEASE INVESTIGATION OTHER: NT LOCATION MODIFIED | PAGE #: _1_ of _1_ |
| SITE INFORMATION | SITE NAME: GCU # 24 | 45 | DATE STARTED: 09/21/11 |
| QUAD/UNIT: E SEC: 36 TWP: | 28N RNG: 12W PM: | NM CNTY: SJ ST: NM | DATE FINISHED: 07/11/12 |
| 1/4 -1/4/FOOTAGE: 1,850'N / 1,15 LEASE #: NM078391C | SWINW (SM) | E FEDERAL STATE / FEE / INDIAN ELKHORN TRACTOR: MBF - D. HAGA | ENVIRONMENTAL SPECIALIST(S): NJV |
| REFERENCE POINT | | NAMES AND STREET AND | 791 GLELEV.: 5,976' |
| 1) 95 BGT (SW/DB) | | 20004 V 400 00700 | CE/BEARING FROM W.H.: 160', N84W |
| 2) | GPS COORD.: | DISTAN | CE/BEARING FROM W.H.: |
| 3) | GPS COORD.: | DISTAN | CE/BEARING FROM W.H.: |
| 4) | GPS COORD.: | DISTAN | CE/BEARING FROM W.H.: |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR L | AB USED: HALL | OVM READING (ppm) |
| 1) SAMPLE ID: 5PC-TB @ 5' (\$ 2) SAMPLE ID: 5PC-TB @ 7.5' | | | 8.1/8015B/8021/B/300.0 (CI) NA 8.1/8015B/8021/B/300.0 (CI) NA |
| 3) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB ANALYSIS: | |
| 4) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB ANALYSIS: | |
| SOIL DESCRIPTION | | AND / SILT / SILTY CLAY / CLAY / GRAVEL | / OTHER |
| | OWISH ORANGE | | |
| COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB COMPOSITE # OF PTS. | OSE FIRM DENSE / VERY DENSE T / SATURATED / SUPER SATURATED 5 | and the second | STIC / COHESME / MEDIUM PLASTIC / HIGHLY PLASTIC SOFT / FIRM / STIFF / VERY STIFF / HARD EXPLANATION - |
| DISCOLORATION/STAINING OBSERVED | YES (NO) EXPLANATION - | | |
| ANY AREAS DISPLAYING WETNESS: YES | EXPLANATION - | | |
| | | RIOR TO WORKOVER RIG ARRIVAL. U | |
| A REAL PROPERTY OF A READ REAL PROPERTY OF A REAL P | | ENCE OF A RELEASE OBSERVED FROM DLLECTED DUE TO ORIGINAL COMPOSI | |
| SOIL IMPACT DIMENSION ESTIMATION: | NA ft. X NA ft | t. X NA ft. EXCAVATION | ESTIMATION (Cubic Yards) : NA |
| | EAREST WATER SOURCE: >1,000' | NEAREST SURFACE WATER: >1,000' | MOCD TPH CLOSURE STD: 100 ppm |
| SITE SKETCH | | PLOT PLAN circle: attached | OVM CALIB. READ. = NA ppm RF = 0.52 |
| WELL | П | (95) I | OVM CALIB. GAS = NA ppm |
| HEAD | SEPARATOR | PBGTL X T.B. ~ 5' | TIME: <u>NA</u> am/pm DATE: <u>NA</u> |
| Ð | BERM | B.G. | MISCELL. NOTES |
| | | | WO - N1473171 |
| | | | PO - 61091 |
| | BERM | | PK - ZEGJ01RIGS |
| | | | March Street Street Street |
| | | | Permit Date: 06/08/10 |
| | PROD. | \cap | OCD Appr. Date: 09/07/11 |
| and the second second | TANK TANK | | ID |
| | | X - S.P.D. | B BGT Sidewalls Visible: Y / N/ NA BGT Sidewalls Visible: Y / N / NA |
| | | LE POINT DESIGNATION; R.W. = RETAINING WALL; | Magnetic declination: 10° E |
| TRAVEL NOTES: CALLOUT: | | ONSITE: 09/21/11, 07/11/12 | |

Date: 04-Oct-11 Analytical Report

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: | Blagg Engineering | | | Clier | t Sample ID: | 5PC-TB | @5' (95 BGT) |
|----------------|---------------------|----------|----------|-------|----------------|-----------|----------------------|
| Lab Order: | 1109909 | | | Co | llection Date: | 9/21/201 | 1 3:20:00 PM |
| Project: | GCU #245 | | | D | ate Received: | 9/23/2011 | Distance of the |
| Lab ID: | 1109909-01 | dille. | 1.1 | | Matrix: | SOIL | 15 Hans 1 - 140 |
| Analyses | | Result | PQL | Qual | Units | DF | Date Analyzed |
| EPA METHOD | 8015B: DIESEL RANGE | ORGANICS | Seller | 10.0 | | - Call | Analyst: JB |
| Diesel Range O | organics (DRO) | 200 | 100 | | mg/Kg | 10 | 9/30/2011 7:52:43 AM |
| Surr: DNOP | | 0 | 73.4-123 | S | %REC | 10 | 9/30/2011 7:52:43 AM |
| EPA METHOD | 8015B: GASOLINE RAN | GE | | | | | Analyst: RAA |
| Gasoline Range | Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/29/2011 5:02:05 PM |
| Surr: BFB | | 93.1 | 75.2-136 | | %REC | 1 | 9/29/2011 5:02:05 PM |
| EPA METHOD | 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | | ND | 0.049 | | mg/Kg | 1 | 9/29/2011 5:02:05 PM |
| Toluene | | ND | 0.049 | | mg/Kg | 1 | 9/29/2011 5:02:05 PM |
| Ethylbenzene | | ND | 0.049 | | mg/Kg | 1 | 9/29/2011 5:02:05 PM |
| Xylenes, Total | | ND | 0.098 | | mg/Kg | 1 | 9/29/2011 5:02:05 PM |
| Surr: 4-Brom | ofluorobenzene | 100 | 80-120 | | %REC | 1 | 9/29/2011 5:02:05 PM |
| EPA METHOD | 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | | 630 | 30 | | mg/Kg | 20 | 9/30/2011 2:17:52 AM |
| EPA METHOD | 418.1: TPH | | | | | | Analyst: JB |
| Petroleum Hydr | | 240 | 20 | | mg/Kg | 1 | 9/29/2011 |

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Analytical Report Lab Order 1207548

Date Reported: 7/23/2012

7/18/2012 11:31:10 AM

7/19/2012 5:27:07 PM

7/16/2012 11:43:35 AM

7/20/2012

Analyst: NSB

Analyst: NSB

Analyst: BRM

Analyst: JMP

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: Blagg Engineering | | | Client Sample | e ID: 5PC-T | TB @ 7.5' (95 BGT) | | | | | |
|-----------------------------|--------------|----------|--------------------------------------|--------------|-----------------------|--|--|--|--|--|
| Project: GCU #245 | | | Collection I | Date: 7/11/2 | 012 11:30:00 AM | | | | | |
| Lab ID: 1207548-001 | Matrix: S | OIL | Received Date: 7/13/2012 10:05:00 AM | | | | | | | |
| Analyses | Result | RL Qua | l Units | DF | Date Analyzed | | | | | |
| EPA METHOD 8015B: DIESEL RA | NGE ORGANICS | - 1997 B | | | Analyst: JMP | | | | | |
| Diesel Range Organics (DRO) | 24 | 10 | mg/Kg | 1 | 7/18/2012 11:31:10 AM | | | | | |

77.6-140

69.7-121

0.047

0.047

0.047

0.093

15

19

80-120

4.7

%REC

mg/Kg

%REC

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%REC

mg/Kg

mg/Kg

1

1

1

1

1

1

1

1

10

1

118

ND

102

ND

ND

ND

ND

110

500

120

Qualifiers: */X

Surr: DNOP

Surr: BFB

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

EPA METHOD 8021B: VOLATILES

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL **Reporting Detection Limit**
- Samples with CalcVal < MDL U
- Page 1 of 6

| Chain-of-Custody Record | | | | | | | | | | | | | | | | | | | NT | 10.00 | |
|-------------------------|---|-------------|--|-------------------------|----------------------|---------------------------|---|---|--------------------------------------|--------------------|--------------------|-------------------|---------------|-------------------------------|------------------------------|-------------|-----------------|------------------|------|----------------------|-------|
| Mailing A | Project Name: | | | | | | | ANALYSIS LABORATOR www.hallenvironmental.com | | | | | | | | | | | RY | | |
| 1000 | BLOOMFIELD, NM 87413 | | | | 000 # 24 | .5 | 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | | | |
| Phone #: | and the second | | | | | | | Te | 21. 50 | 15-34 | 45-3 | - | - | ax . ysis | | - | -410 | 17 | | | - |
| email or | and the second se | | and the second sec | Project Manag | jer: | | | | | | | | | | T C C | 1000 | | | | 1 | |
| QA/QC Pa | | | Level 4 (Full Validation) | | NELSON V | ELEZ | (80218) | (Aluo | (Diesel) | | | | | PO4, SO4) | B's | | | | | | 130.0 |
| Accredita | | | | Sampler: | NELSON V | ELEZ nr | 190 | (Gas | (Gas/ | | | | | 02, 1 | 32 PC | | | | | nole | |
| | | Other_ | | On Ice: | Yes | E No | | HdT | 158 | 18.1) | 04.1) | (H) | | N,EC | / 808 | | 3 | | | e sar | N. |
| | Type) | | | Sample Temp | erature: <u>3.3</u> | and the second second | ŧ | ÷ 36 | d 80 | d 4. | od 5(| or PJ | als | J' NC | ides | - | VOA | 0.0 | - | osit | (Y OI |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX +-MT | BTEX + MTBE + TPH (Gas only) | FPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chioride (300.0) | | pt. composite sample | L Br |
| 9/21/11 | 1520 | SOIL | 5PC-TB @ 5' (95 BGT) | 4 oz 2 | Cool | 1109909-1 | V | | ۷ | ٧ | H | | | 4 | 8 | 8 | 8 | V | | V S | 1 |
| 3/21/11 | 1315- | | EPO TB @ 8" (21 BOT) | 4012 | Cool | -2- | ~ | | * | + | | | | | | | | ~ | + | + | |
| - | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | No. | | | | 1 | |
| | - | 4.753 | | | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 145 | | | | | | | | | | |
| Date: /// | Time: 1530 | Relinquishe | n J | Received by: | 1 Jacks | Date Time 9/22/11 1530 | | L DI | RECT | LY TO | O BP | | | | | | | ILY. | | | |
| Date: 9/23/11 | Time: SIO | Relinquishe | uster Usetar | Redeived by: | X | Date Time 9/23/11 | | | | | | | | | | | | 7401 Joy | LRIE | 5 | |

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

| C | hain- | of-Cus | stody Record | I urn-Arouna | ı ime: | | | | | | A | 11 | F | N | /TF | 20 | N | ME | NT | AL |
|--|--|--------------------|---|-------------------------|--|---------------------|-------------|---|-------|--------------------|--------------------|-------------------|---------------|-------------------------------|------------------------------|-------------|-----------------|------------------|--------|--------------------------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | Rush_ | | | | F | | | | | | | | | | | DRI |
| - Anne | | | San Strift State in | Project Name | | | | | | | | | | | nme | | | | | |
| Mailing A | ddress: | P.O. BO | X 87 | | GCU # 24 | 5 | | 49 | 01 + | lawl | | | | | | | | 37109 | 4 | |
| | 12- | BLOOM | FIELD, NM 87413 | Project #: | | | | | | 05-3 | | | | | 505 | | | | | |
| Phone #: | | (505) 63 | 2-1199 | | | | | | | | | - | | - | Red | - | | | | |
| email or f | ax#: | | | Project Manager: | | | | | | | | | | | 1 | | | | | |
| the second s | QA/QC Package: | | NELSON VELEZ | | | (8021B) | (Vino | (Diesel) | and a | all a | | | PO4, SO4) | CB's | | 194 | | | | |
| Accredita | ccreditation: | | Sampler: NELSON VELEZ 71V | | | 1° | (Gas | (Gas, | | | | | 02, | 32 PC | | | | | sample | |
| NELAP Other | | On ice: Z Yes 🗉 No | | | | H | 158 | 8.1) | 4.1) | (H) | |)3, N | / 808 | | - | 1 | - | e sal | | |
| EDD (Type) | | | | Sample Temp | erature: L | | ł | + - | 1 80 | d 41 | d 50 | r PA | als | NON (| des | - | VOA | 0.0) | | osite |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NOJ 1207548 | BTEX + WITE | BTEX + MTBE + TPH (Gas only) TPH Method 8015B (Gas/Diesel) | | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (300.0) | | Grab sample 5 pt. composite |
| 7/11/12 | 1130 | SOIL | 5PC-TB @ 7.5' (95 BGT) | 4 02 2 | Cool | -001 | V | | V | V | - | ~ | - | | ~ | ~ | ~ | V | | V |
| | _ | | | | | | | | | | | | | | | | | | | Ť |
| | | | | | | Real Providence | | | | | | | | | | | | | | |
| | | 100 | | 2.2.5 | | | | | | | | | | | | | | | 1 | |
| | L. C. | | | | 8 Sh | S. 10 . 10 | | | | | | | | | | | | | - | |
| | 6.00 | | | | | | | | | | | | | | | | | | + | - |
| | | | | | | | | | | | | | | | | | | | + | + |
| | 1.0.1 | C. Second | | | N SOLO | 1 | | | | | | | | - | | | | | + | +- |
| 28 | | 1.52.50 | | | | | | | | | | | - | | | | | | - | |
| 1999 (M | | | The second se | | | | | | | | | | | | - | | | | + | - |
| | 188 A. | 2. | CONTRACTOR OF STREET | | | | | | | - | | - | | | | | | | - | +- |
| | | | | | | | 22 | | | | 1.1 | | | | | | | - | -+ | |
| Date: / | Time: | Relinquishe | d by: | Received by: | | Date Time | Ren | hark | 5: | TPH | 1 (80 |)154 | 3) - (| GRO | 281 | DRC | | | | - |
| -// | 1430 | 1/1 | un J- | hist | is was los | 7/12/12/1431 | 1. | | | e to | : | | | | | | | | | |
| Date: | Time: | Relinquishe | ed by: | Received by: | ATT | Date Time | Ĩ | | | | | ogg E D. Bo | 1 | | ng, Ir | IC. | | | | |
| 112/12 | 1702 | 1/in | istere Walters | males | Harri | on/12/12 1005 | T | | | | | | | | 874: | 13 | | | | |
| | If necessary, satisfies submitted to Hall Environmental may be | | | | he subcontracted to other according theoretarian. This physical as wellow as the manifestite Amount and the second | | | | | | - | | | | | | | | | |

| Client: Blagg En Project: GCU #2 | ngineering | | 1.5 | | | | | | Work | Order: | 1109909 |
|--|-----------------|-------|-------|--------|---------|-----------|-----------|----------|---------|-------------|------------|
| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec L | owLimit H | ighLimit | %RPD | RPDLimit | |
| and the second | | | | | | | 1.1 | | | | |
| Method: EPA Method 300.0 Sample ID: MB-28618 |): Anions | MBLK | | | | Batch ID: | 28618 | Analysi | s Date: | 9/29/2011 | 1:14:20 PM |
| Chloride | ND | mg/Kg | 1.5 | | | | | | | | |
| Sample ID: LCS-28618 | ND | LCS | 1.5 | | | Batch ID: | 28618 | Analysi | s Date: | 9/29/2011 | 1:31:45 PM |
| Chloride | 13.91 | mg/Kg | 1.5 | 15 | 0 | 92.7 | 90 | 110 | | | |
| Method: EPA Method 418. | · TPH | | | | | | | | | | 1.65 |
| Sample ID: MB-28601 | | MBLK | | | | Batch ID: | 28601 | Analysi | s Date: | | 9/29/201 |
| Petroleum Hydrocarbons, TR | ND | mg/Kg | 20 | | | | | | | | |
| Sample ID: LCS-28601 | | LCS | | | | Batch ID: | 28601 | Analysi | s Date: | | 9/29/201 |
| Petroleum Hydrocarbons, TR | 100.5 | mg/Kg | 20 | 100 | 0 | 101 | 87.8 | 115 | | | |
| Sample ID: LCSD-28601 | 100.0 | LCSD | 20 | 100 | v | Batch ID: | 28601 | Analysi | s Date: | | 9/29/201 |
| Petroleum Hydrocarbons, TR | 103.2 | mg/Kg | 20 | 100 | 0 | 103 | 87.8 | 115 | 2.61 | 8.04 | 01201201 |
| | - | | | | | | | | | | |
| Method: EPA Method 8015 Sample ID: MB-28603 | B: Diesel Range | MBLK | | | | Batch ID: | 28603 | Analysi | e Data: | 0/28/2011 | 9:54:16 AM |
| | | | | | | Daton ID. | 20003 | Analysi | s Date. | 3/20/2011 | 5.04.10 AN |
| Diesel Range Organics (DRO) | ND | mg/Kg | 10 | | | | 00000 | Analusi | Datas | 0/00/0044 | 0.00.40 44 |
| Sample ID: LCS-28603 | | LCS | | | | Batch ID: | 28603 | Analysi | s Date: | 9/28/2011 1 | 0:28:40 AN |
| Diesel Range Organics (DRO) | 55.22 | mg/Kg | 10 | 50 | 4.175 | 102 | 66.7 | 119 | | 2 | |
| Method: EPA Method 8015 | B: Gasoline Ran | nge | | | | | | | | | |
| Sample ID: MB-28579 | | MBLK | | | | Batch ID: | 28579 | Analysi | s Date: | 9/27/2011 | 1:24:32 PM |
| Gasoline Range Organics (GRO | D) ND | mg/Kg | 5.0 | | | | | | | | |
| Sample ID: LCS-28579 | | LCS | | | | Batch ID: | 28579 | Analysi | s Date: | 9/27/2011 | 9:33:15 PN |
| Gasoline Range Organics (GRO |) 29.68 | mg/Kg | 5.0 | 25 | 0 | 119 | 86.4 | 132 | | | |
| Method: EPA Method 8021 | B: Volatiles | | | | | | | | | | |
| Sample ID: MB-28579 | | MBLK | | | | Batch ID: | 28579 | Analysi | s Date: | 9/27/2011 | 1:24:32 PM |
| Benzene | ND | mg/Kg | 0.050 | | | | | | | | |
| Toluene | ND | mg/Kg | 0.050 | | | | | | | | |
| Ethylbenzene | ND | mg/Kg | 0.050 | | | | | | | | |
| Xylenes, Total | ND | mg/Kg | 0.10 | | | | | | | | |
| Sample ID: LCS-28579 | | LCS | | | | Batch ID: | 28579 | Analysis | a Date: | 9/27/2011 1 | 0:03:14 PM |
| Benzene | 0.9909 | mg/Kg | 0.050 | 1 | 0.0236 | 96.7 | 83.3 | 107 | | | |
| Toluene | 0.9149 | mg/Kg | 0.050 | 1 | 0.0056 | 90.9 | 74.3 | 115 | | | |
| Ethylbenzene | 1.023 | mg/Kg | 0.050 | 1 | 0.0136 | 101 | 80.9 | 122 | | | |
| Xylenes, Total | 3.143 | mg/Kg | 0.10 | 3 | 0.0227 | 104 | 85.2 | 123 | | | |

Qualifiers:

Estimated value Е

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit Н

Holding times for preparation or analysis exceeded

NC Non-Chlorinated

RPD outside accepted recovery limits R

Page 1

| Hall Envi | ronmental Analysis Laboratory, Inc. | Date: 04-Oct-11 |
|-----------|-------------------------------------|-----------------|
| CLIENT: | Blagg Engineering | |
| Project: | GCU #245 | CASE NARRATIVE |

Lab Order:

1109909

Analytical Comments for METHOD 8015DRO_S, SAMPLE 1109909-01A: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG Date Received: 9/23/2011 Work Order Number 1109909 Received by: DAM Rauld Sample ID labels checked by: Checklist completed by: Initials Matrix: Carrier name: Greyhound Shipping container/cooler in good condition? Yes V Not Present No Custody seals intact on shipping container/cooler? Yes V No Not Present Not Shipped Custody seals intact on sample bottles? Yes No N/A 1 Yes Vi Chain of custody present? No Chain of custody signed when relinquished and received? Yes V No Chain of custody agrees with sample labels? Yes V No Samples in proper container/bottle? Yes V No Sample containers intact? Yes V No Sufficient sample volume for indicated test? No Yes V All samples received within holding time? No Number of preserved Yes V bottles checked for No VOA vials submitted V Yes Water - VOA vials have zero headspace? No pH: Water - Preservation labels on bottle and cap match? Yes No N/A V Yes Water - pH acceptable upon receipt? No N/A <2 >12 unless noted V below. Container/Temp Blank temperature? <6° C Acceptable 3.3° If given sufficient time to cool.

COMMENTS:

Date contacted:

Person contacted

Regarding:

Comments:

Contacted by:

Client contacted

Corrective Action

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207548 23-Jul-12

| Client: Project: | lagg Engineering CU #245 | |
|---------------------|--|-----------------------|
| Sample ID MB-28 | SampType: MBLK TestCode: EPA Method 300.0: Anions | |
| Client ID: PBS | Batch ID: 2830 RunNo: 4050 | |
| Prep Date: 7/16/2 | 2 Analysis Date: 7/16/2012 SeqNo: 115812 Units: mg/Kg | |
| Analyte | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL | _imit Qual |
| Chloride | ND 1.5 | 3 |
| Sample ID LCS-28 | SampType: LCS TestCode: EPA Method 300.0: Anions | |
| Client ID: LCSS | Batch ID: 2830 RunNo: 4050 | |
| Prep Date: 7/16/2 | 2 Analysis Date: 7/16/2012 SeqNo: 115813 Units: mg/Kg | |
| Analyte | Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL | _imit Qual |
| Chloride | 14 1.5 15.00 0 92.5 90 110 | and the second second |

Qualifiers:

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

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

ND

Y

WO#:

1207548 23-Jul-12

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

Client: Blagg Engineering Project: GCU #245

| Sample ID MB-2886 | SampType: MBLK | TestCode: EPA Method | 418.1: TPH | | |
|----------------------------|--------------------------|-----------------------|----------------|----------|------|
| Client ID: PBS | Batch ID: 2886 | RunNo: 4187 | | | |
| Prep Date: 7/18/2012 | Analysis Date: 7/20/2012 | SeqNo: 119938 | Units: mg/Kg | | |
| Analyte | Result PQL SPK value SPK | Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | ND 20 | | A Destroyer | | |
| Sample ID LCS-2886 | SampType: LCS | TestCode: EPA Method | 418.1: TPH | | |
| Client ID: LCSS | Batch ID: 2886 | RunNo: 4187 | | | |
| Prep Date: 7/18/2012 | Analysis Date: 7/20/2012 | SeqNo: 119939 | Units: mg/Kg | | |
| Analyte | Result PQL SPK value SPK | Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 100 20 100.0 | 0 104 80 | 120 | | |
| Sample ID LCSD-2886 | SampType: LCSD | TestCode: EPA Method | 418.1: TPH | Test w | |
| Client ID: LCSS02 | Batch ID: 2886 | RunNo: 4187 | | | |
| Prep Date: 7/18/2012 | Analysis Date: 7/20/2012 | SeqNo: 119940 | Units: mg/Kg | | |
| Analyte | Result PQL SPK value SPK | Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 100 20 100.0 | 0 101 80 | 120 3.63 | 20 | - |

Qualifiers:

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

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

| II.II Englisher mental | A ma Invata | Laboutom | Inc |
|------------------------|-------------|-------------|------|
| Hall Environmental | Analysis | Laboratory, | Inc. |

WO#: 1207548 23-Jul-12

| Sample ID MB-2863 Client ID: PBS | SampType: MBLK Batch ID: 2863 | TestCode: EPA Method RunNo: 4105 | 8015B: Diesel Rang | e Organics | |
|---|----------------------------------|-------------------------------------|--------------------|------------|------|
| Prep Date: 7/17/2012 | Analysis Date: 7/18/2012 | SegNo: 117564 | Units: mg/Kg | | |
| Analyte | | SPK Ref Val %REC LowLimit | HighLimit %RPI | D RPDLimit | Qual |
| Diesel Range Organics (DRO) Surr: DNOP | ND 10 11 10.00 | 112 77.6 | 140 | | |
| Sample ID LCS-2863 | SampType: LCS | TestCode: EPA Method | 8015B: Diesel Rang | e Organics | |
| Client ID: LCSS | Batch ID: 2863 | RunNo: 4105 | | | |
| Prep Date: 7/17/2012 | Analysis Date: 7/18/2012 | SeqNo: 117565 | Units: mg/Kg | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPI | D RPDLimit | Qual |
| Diesel Range Organics (DRO) | 36 10 50.00 | 0 73.0 52.6 | 130 | 1.1 | |
| Surr: DNOP | 4.3 5.000 | 85.2 77.6 | 140 | | |
| Sample ID MB-2911 | SampType: MBLK | TestCode: EPA Method | 8015B: Diesel Rang | e Organics | 17 |
| Client ID: PBS | Batch ID: 2911 | RunNo: 4133 | | | |
| Prep Date: 7/19/2012 | Analysis Date: 7/19/2012 | SeqNo: 118627 | Units: %REC | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPI | O RPDLimit | Qual |
| Surr: DNOP | 11 10.00 | 114 77.6 | 140 | | |
| Sample ID LCS-2911 | SampType: LCS | TestCode: EPA Method | 8015B: Diesel Rang | e Organics | |
| Client ID: LCSS | Batch ID: 2911 | RunNo: 4133 | | | |
| Prep Date: 7/19/2012 | Analysis Date: 7/19/2012 | SeqNo: 118783 | Units: %REC | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPI | D RPDLimit | Qual |
| Surr: DNOP | 4.6 5.000 | 91.0 77.6 | 140 | | |

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU #245

-

| Sample ID MB-2878 Client ID: PBS | SampType: MBLK Batch ID: 2878 | TestCode: EPA Method 80 RunNo: 4160 | 15B: Gasoline Range |
|--|--|--|--------------------------------------|
| Prep Date: 7/18/2012 | Analysis Date: 7/19/2012 | SeqNo: 119360 U | Inits: mg/Kg |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit H | HighLimit %RPD RPDLimit Qual |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 1000 1000 | 103 69.7 | 121 |
| | | | |
| Sample ID LCS-2878 | SampType: LCS | TestCode: EPA Method 80 | 15B: Gasoline Range |
| Sample ID LCS-2878 Client ID: LCSS | SampType: LCS Batch ID: 2878 | TestCode: EPA Method 80 RunNo: 4160 | 15B: Gasoline Range |
| | | RunNo: 4160 | n15B: Gasoline Range Inits: mg/Kg |
| Client ID: LCSS | Batch ID: 2878 Analysis Date: 7/19/2012 | RunNo: 4160 SeqNo: 119361 U | |
| Client ID: LCSS Prep Date: 7/18/2012 | Batch ID: 2878 Analysis Date: 7/19/2012 | RunNo: 4160 SeqNo: 119361 U | Inits: mg/Kg |

Qualifiers:

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

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

ND

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU #245

| Sample ID MB-2878 | Samp | Type: ME | BLK | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
|--|---|---|--|---|---|--|--|---------|----------|------|
| Client ID: PBS | Batch ID: 2878 Analysis Date: 7/19/2012 | | | F | RunNo: 4 | 160 | | | | |
| Prep Date: 7/18/2012 | | | | S | SeqNo: 1 | 19432 | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.050 | | and the second se | | | | | | 13.1 |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | 24 | 1.000 | 1.1.1.1.1.1 | 113 | 80 | 120 | 1.1.2.5 | 414.4 | |
| Sample ID LCS-2878 SampType: LCS | | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
| Sample ID LCS-2878 | Samp | Type: LC | s | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
| Sample ID LCS-2878 Client ID: LCSS | | Type: LC h ID: 28 | | | tCode: El RunNo: 4 | | 8021B: Vola | tiles | | |
| | | h ID: 28 | 78 | F | | 160 | 8021B: Vola Units: mg/F | | | |
| Client ID: LCSS | Batc | h ID: 28 | 78 19/2012 | F | RunNo: 4 | 160 | | | RPDLimit | Qual |
| Client ID: LCSS Prep Date: 7/18/2012 | Batc Analysis [| h ID: 28 Date: 7/ | 78 19/2012 | F | RunNo: 4 SeqNo: 1 | 160 19433 | Units: mg/H | (g | RPDLimit | Qual |
| Client ID: LCSS Prep Date: 7/18/2012 Analyte Benzene | Batc Analysis I Result | h ID: 28 Date: 7/ PQL | 78 19/2012 SPK value | F S SPK Ref Val 0 | RunNo: 4 SeqNo: 1 %REC | 160 19433 LowLimit | Units: mg/F HighLimit | (g | RPDLimit | Qual |
| Client ID: LCSS Prep Date: 7/18/2012 Analyte Benzene Toluene | Batc Analysis I Result 0.99 | h ID: 28 Date: 7/ PQL 0.050 | 78 19/2012 SPK value 1.000 | F SPK Ref Val 0 0 | RunNo: 4 SeqNo: 1 %REC 99.1 | 160 19433 LowLimit 76.3 | Units: mg/k HighLimit 117 | (g | RPDLimit | Qual |
| Client ID: LCSS Prep Date: 7/18/2012 Analyte | Batc Analysis I Result 0.99 1.0 | h ID: 28 Date: 7/ PQL 0.050 0.050 | 78 19/2012 SPK value 1.000 1.000 | F SPK Ref Val 0 0 0 | RunNo: 4 SeqNo: 1 %REC 99.1 101 | 160 19433 LowLimit 76.3 80 | Units: mg/k HighLimit 117 120 | (g | RPDLimit | Qual |

Qualifiers:

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

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

ND

WO#: 1207548 23-Jul-12

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Hall Environmental An Albugu TEL: 505-345-3975 F. Website: www.halle | 4901 uerque AX: 5 | Hawi 2, NN 05-34 | kins . 1871 15-41 | NE 105 10; | Sample Log-In Check List |
|--|---|-------------------------|------------------------|-------------------------|------------------|--|
| Client Name: BLAGG Received by/date: | onliale wo | ork Or | der N | lum | | 1207548 |
| Logged By: Lindsay Mangin 7/ | 13/2012 10:05:00 AM | | | | Ø | -ythes |
| Completed By: Lindsay Mangin 7/1 Reviewed By: | 13/2012 10:54:01 AM | | | | Ø | -419-90 -419-90 |
| Chain of Custody | 1. 1 | | | | | |
| 1. Were seals intact? | | Yes | | No | | Not Present 🗹 |
| 2. Is Chain of Custody complete? | | Yes | ~ | No | | Not Present |
| 3. How was the sample delivered? | | Cour | ier | | | |
| Log In | | | | | | |
| 4. Coolers are present? (see 19. for cooler specif | ic information) | Yes | | No | | NA 🗆 |
| 5. Was an attempt made to cool the samples? | | Yes | | No | | |
| 6. Were all samples received at a temperature of | >0° C to 6.0°C | Yes | • | No | | |
| 7. Sample(s) in proper container(s)? | | Yes | | No | | |
| 8. Sufficient sample volume for indicated test(s)? | | Yes | | No | | |
| 9. Are samples (except VOA and ONG) properly p | preserved? | Yes | ~ | No | | |
| 10. Was preservative added to bottles? | | Yes | | No | ~ | NA 🗆 |
| 11. VOA vials have zero headspace? | | Yes | | No | | No VOA Vials |
| 12. Were any sample containers received broken? | | Yes | | No | ~ | |
| Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes | • | No | | # of preserved bottles checked for pH: |
| 14. Are matrices correctly identified on Chain of Cu | istody? | Yes | V | No | | (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | | Yes | | No | | Adjusted? |
| 16. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes | | No | | Checked by: |
| Special Handling (if applicable) | | | | | | |
| 17. Was client notified of all discrepancies with this | order? | Yes | | No | | NA 🗹 |
| Person Notified: By Whom: Regarding: Client Instructions: | Date: Via: | eMai | |] Ph | опе | Fax In Person |

19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 4.1 | Good | Yes | | | |

