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

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, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| Pit, Closed-Loop System, Below-Grade Tank, or |
|--|
| Proposed Alternative Method Permit or Closure Plan Application |
| Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit |
| Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank; or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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. |
| Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778 |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name: GALLEGOS CANYON UNIT 139 |
| API Number: 3004507432 OCD Permit Number: |
| U/L or Qtr/Qtr P Section 18.0 Township 28.0N Range 11W County: San Juan County |
| Center of Proposed Design: Latitude 36.65839 Longitude -108.04009 NAD: ☐ 1927 ■ 1983 |
| Surface Owner: 🗷 Federal 🗌 State 🔲 Private 🗋 Tribal Trust or Indian Allotment |
| OIL CONS. DIV DIST. 3 |
| Pit: Subsection F or G of 19.15.17.11 NMAC |
| Temporary: Drilling Workover MAY 15 2014 |
| |
| Permanent Emergency Cavitation P&A |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ☐ String-Reinforced Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume:bbl Dimensions: Lx Wx D 3. |
| □ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other Volume:bbl Dimensions: Lx Wx D 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC |
| ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ☐ String-Reinforced Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume:bbl Dimensions: Lx Wx D 3. |
| Lined Unlined Liner type: Thicknessmil |
| Lined Unlined Liner type: Thicknessmil |
| Lined Unlined Liner type: Thicknessmil |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx Wx D 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other 4. |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D S. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other A. Welded Factory Other Seeondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off X Visible sidewalls and liner Visible sidewalls only Other SINGLE BOTTOMED SIDE WALLS NOT VISIBLE |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 3. |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D S. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other A. Welded Factory Other Seeondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off X Visible sidewalls and liner Visible sidewalls only Other SINGLE BOTTOMED SIDE WALLS NOT VISIBLE |

| Fencing: 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) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' Hogwire with single barbed wire | hospital, |
|---|-----------------------------|
| 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) | |
| 8. 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 | |
| Administrative Approvals and Exceptions: 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | office for |
| 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 material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system. | priate district pproval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ▼ Yes □ No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes 🗷 No ☐ NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ■ NA |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ 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 |
| 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 | ☐ Yes 🗷 No |
| Within a 100-year floodplain FEMA map | ☐ Yes 🗷 No |

| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents are 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 19.15.17.9 NMAC and 19.15.17.13 NMAC ■ Previously Approved Design (attach copy of design) API Number: □ or Permit Number: |
|--|
| Grand Approved State (American Supplied Approved Supplied Supplied Approved Supplied Supplied Supplied Supplied Supplied Supplied Supplied |
| Closed-loop Systems Permit Application Attachment 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 documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| |
| Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure) |
| Permanent Pits Permit Application 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 documents are attached. 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 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 19.15.17.13 NMAC Nuisance or Hazardous Odors, including H ₂ S, 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 |
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative 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 |
| Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the 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 F 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 G of 19.15.17.13 NMAC ✓ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC |

| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, | | |
|--|--|-----------------------|
| facilities are required. | uriting fluids and arm callings. Ose anachment if i | nore man iwo |
| Disposal Facility Name: | Disposal Facility Permit Number: | |
| Disposal Facility Name: | Disposal Facility Permit Number: | |
| Will any of the proposed closed-loop system operations and associated activities o Yes (If yes, please provide the information below) No | ccur on or in areas that will not be used for future ser | vice and operations? |
| Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection | e requirements of Subsection H of 19.15.17.13 NMA L of 19.15.17.13 NMAC | C |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC | re administrative approval from the appropriate dist I Bureau office for consideration of approval. Justi | rict office or may be |
| Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Date of the buried waste. | a obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Dat | a 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; Date of the buried waste. | a obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | nificant watercourse or lakebed, sinkhole, or playa | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellit | | Yes No |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or s NM Office of the State Engineer - iWATERS database; Visual inspection | pring, in existence at the time of initial application. | ☐ Yes ☐ No |
| Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approv | · | Yes No |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visu | al inspection (certification) of the proposed site | Yes No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining | g and Mineral Division | Yes No |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map | y & Mineral Resources; USGS; NM Geological | Yes No |
| Within a 100-year floodplain FEMA map | | ☐ Yes ☐ No |
| 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of th | e following items must be attached to the closure pla | an. Please indicate, |
| by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Proof of Surface Owner Notice - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate of a drying Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19.1: Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Construction Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection | Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19.5.17.13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC | |

| Operator Application Certification: I hereby certify that the information submitted with this application is true, accura | ate and complete to the best of my knowledge and belief. |
|--|--|
| Name (Print): Jeffrey Peace | Title: Field Environmental Advisor |
| Signature: They H. Kence | Date: 06\10\2010 |
| e-mail address: Peace.Jeffrey@bp.com | Telephone: 505-326-9479 |
| OCD Approval: Permit Application (including closure plan) Closure | an (only) OCD Conditions (see attachment) |
| OCD Representative Signature: | Compliance Officer |
| Title: Environment Engineer | OCD Permit Number: |
| Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of th section of the form until an approved closure plan has been obtained and the closure plan plan has been obtained and the closure plan plan plan plan plan plan plan plan | o implementing any closure activities and submitting the closure report. he completion of the closure activities. Please do not complete this |
| | Closure Completion Date: 15 - 7 - 25 - 25 - 25 - 25 - 25 - 25 - 25 |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Alterna If different from approved plan, please explain. | tive Closure Method Waste Removal (Closed-loop systems only) |
| 23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems | That Utilize Above Ground Steel Tanks or Haul-off Bins Only: |
| Instructions: Please indentify the facility or facilities for where the liquids, drill two facilities were utilized. | |
| Disposal Facility Name: | Disposal Facility Permit Number: |
| Disposal Facility Name: | Disposal Facility Permit Number: |
| Were the closed-loop system operations and associated activities performed on or Yes (If yes, please demonstrate compliance to the items below) No | in areas that will not be used for future service and operations? |
| Required for impacted areas which will not be used for future service and operation [] Site Reclamation (Photo Documentation) | ns: |
| Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | |
| 24. | |
| Closure Report Attachment Checklist: Instructions: Each of the following ite mark in the box, that the documents are attached. | ms must be attached to the closure report. Please indicate, by a check |
| Proof of Closure Notice (surface owner and division) | |
| Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) | |
| Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) | |
| Disposal Facility Name and Permit Number | |
| Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | |
| St Cita Dantamatica (Photo Dogumentation) | LOG ALMAN |
| On-site Closure Location: Latitude 36.65839 Longitu | nde/08.04009 NAD: □1927 🐼 1983 |
| 25. Operator Closure Certification: | |
| I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirements. | ents and conditions specified in the approved closure plan. |
| Name (Print): Jeff leace | _ Title: Area Environmental Engineer |
| Signature: She face | Title: Area Environmental Engineer Date: May 14, 2014 Telephone: (505) 326-9479 |
| c-mail address: peace jeffrey @ bf.com | Telephone: (505) 326-9479 |

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit 139 API No. 3004507432 Unit Letter P, Section 18, T28N, R11W

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

- 1. 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 notice requirements. Closure notices will be made for all BGT closures from this point forward.
- 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 notice requirements. Closure notices will be made for all BGT closures from this point forward.
- 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 | Release Verification | Sample |
|--------------|-------------------------------------|----------------------|---------|
| | 95 bbl BGT | (mg/Kg) | 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 | 100 | ND |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | ND |

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 and TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

7. BP shall notify the division District III office of its results on form C-141.

C-141 is attached.

8. 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.

Sampling results indicate no release 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 area under the BGT was backfilled with clean soil and is still within the active 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 area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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 area over the BGT 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 area over the BGT 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.

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
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

10

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | | Rele | ease Notific | catio | n and Co | rrective A | ction | | | | | |
|--|--|--|--|---|-----------------------------------|---|--|---|--|---|--|-------------------------------------|--|
| | | | | | | OPERA' | ГOR | |] Initia | al Report | \boxtimes | Final Report | |
| Name of Co | | | | | | Contact: Jef | f Peace | | | | | | |
| Address: 20 | | | | M 87401 | | Telephone 1 | No.: 505-326-94 | 179 | | | | | |
| Facility Nar | ne: Galleg | os Canyon I | Unit 139 | | | Facility Type: Natural gas well | | | | | | | |
| Surface Ow | ner: Feder | al | | Mineral (| Owner: | Federal | | | API No | . 30045074 | 132 | | |
| | | | | LOCA | ATIO | N OF REI | LEASE | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | /South Line | Feet from the | East/We | st Line | County: Sa | an Juan | i | |
| P | 18 | 28N | 11W | 1,150 | South | 1 | 1,150 | East | | | | | |
| | | Lat | itude3 | 6.65839 | | Longitud | e108.04009 | | | | | | |
| | | | | NAT | TIRE | OF REL | EASE. | | | | | | |
| Type of Rele | ase: none | | | 1173.1 | UKL | | Release: N/A | 7 | Volume F | Recovered: N | J/A | | |
| Source of Re | | grade tank - | - 95 bbl | | | | lour of Occurrenc | | | Hour of Dis | | | |
| Was Immedia | | iven? | | | | If YES, To | Whom? | <u>'</u> | | | | | |
| | | | Yes [| No 🛛 Not R | equired | | | | | | | | |
| By Whom? | | | | | | Date and I | | | | | | | |
| Was a Water | course Reac | | | | | If YES, Vo | olume Impacting t | the Waterc | course. | | | | |
| | | L. |] Yes ⊠ | No | | | | | | | | | |
| If a Watercou | rse was Im | pacted, Desci | ibe Fully.* | · | ., | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | the BGT was done attack the state of the sta | | removal t | to ensure no | soil im | pacts from | |
| | | | | ten.* BGT was reactive well area. | emoved | and the area u | nderneath the BG | T was san | npled. T | he area unde | r the B | GT was | |
| regulations all public health should their o | I operators or the enviruperations had nment. In a | are required to conment. The ave failed to ddition, NMO | to report are acceptance acceptan | nd/or file certain rece of a C-141 reporting and received investigate and received. | release r ort by th remedia | notifications a ne NMOCD m te contaminati | knowledge and und perform correctarked as "Final Roon that pose a three the operator of the correction | etive action eport" doc eat to ground responsibi | ns for rele es not reli and water lity for co | eases which ieve the open r, surface was ompliance v | may er rator of iter, hu vith any | ndanger Fliability man health | |
| Signature: | eff Pa | w | | | | | OIL CON | <u>SERVA</u> | TION | DIVISIO | <u>)N</u> | | |
| Printed Name | y · | | | | | Approved by | Environmental S | pecialist: | | | | | |
| Title: Area E | | | | | | Approval Da | te: | Ex | piration | Date: | | | |
| E-mail Addre | ss: peace.je | effrey@bp.co | m | | | Conditions o | f Approval: | | | Attached | | | |
| Date: May 1 | 4, 2014 | 1631 | |)5-326-9479 | | | | | | Attached | <u></u> | | |
| Attach Addi | tional She | ets If Neces | sary | | | | | | | | | | |

| CLIENT: BP | BLAGG P.O. BOX 87, | ENGINEERIN BLOOMFIEL | • | 3 | API#: | 04507 | 432 |
|--|--------------------------------------|------------------------------|------------------------------|--------------|-------------------------------------|------------------------|---------------|
| | (| 505) 632-1199 | 9 | | TANK ID (if applicble): _ | A | |
| FIELD REPORT: | (circle one): BGT CONFIRMATIO | N / RELEASE INVESTIG | ATION / OTHER: | | PAGE#: _ | 1 0 | f 1 _ |
| SITE INFORMATION | | | | | DATE STARTED: | 10/ | 12/12 |
| QUAD/UNIT: P SEC: 18 TWP: | 28N RNG: 11W | PM: NM CNTY | : SJ st: | MM_ | DATE FINISHED: | | |
| 1/4 -1/4/FOOTAGE: 1,150'S / 1,150' | | FI | KHORN | | ENVIRONMENTAL | | CD. |
| | PROD. FORMATION: DK | | | | SPECIALIST(S): | | CB |
| REFERENCE POINT | | | | | | 041 | -/ |
| 1) 95 BGT (SW/SB) | | · | | | ARING FROM W.H.: | , | N5E |
| 2) | | | | | ARING FROM W.H.: | | |
| 3) | | | | | ARING FROM W.H.: | | |
| SAMPLING DATA: | T | | | IANCE/BEA | ARING FROM W.H.: | | OVM |
| | CHAIN OF CUSTODY RECORD(S | | | 4404 | 004ED 0004D | 200 0/01 | READING (ppm) |
| 1) SAMPLE ID: 95 BGT 5- pt. @ | | | | | | | 0.0 |
| 2) SAMPLE ID: 3) SAMPLE ID: | | | | | | | |
| 4) SAMPLE ID: | | | | | | | |
| | | | | | | · · · | |
| SOIL DESCRIPTION SOIL COLOR: MODE | - SOIL TYPE: SAND / SI | ILTY SAND SILT / SILT | Y CLAY / CLAY / GRAV | ÆL / OTI | HER | | |
| COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY | | SIVE PLASTICITY (CL | AYS): NON PLASTIC / SLIGHTLY | PLASTIC / C | OHESIVE / MEDIUM PLA | STIC / HIGHLY P | LASTIC |
| CONSISTENCY (NON COHESIVE SOILS): LC | OSE/FIRM / DENSE / VERY DEN | SE DENSITY (C | OHESIVE CLAYS & SILTS | | | | |
| MOISTURE: DRY/SLIGHTLY MOIST/ MOIST/W | | D HC ODOR | DETECTED: YES (NO | EXPL | ANATION | | |
| SAMPLE TYPE: GRAB (COMPOSITE - # DISCOLORATION/STAINING OBSERVED | | | | | | | |
| | | | | | | | |
| ANY AREAS DISPLAYING WETNESS: YES NO | EXPLANATION - SOME MOIS | TURE FROM HYDROV | AC | | | | |
| APPARENT EVIDENCE OF A RELEASE O | | | NATION : | | | | |
| ADDITIONAL COMMENTS: 95 BGT IN 14 | X14 X6 WOOD-LINED CELLA | AR. | | | | | |
| SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER:<50' N | NA ft. X NA EAREST WATER SOURCE: >1, | tt. X NA | _ | | IMATION (Cubic ` D TPH CLOSURE S | | NA ppm |
| SITE SKETCH | | PLOT PL | AN circle: attache | d OVM | CALIB, READ. = 5 | 52.7 pp | m RF = 0.52 |
| | _ | | | ♦ OVM | | 00 ppi | 111 - 0.02 |
| | WOODEN R.W. | X | N | TIME: | _1:00_ am(pm) | DATE: 10 | /12/12 |
| | I X | X X) | - 1 | ` I — | MISCELI | NO | - res |
| | | | | Ιw | o: N1557 | | . – |
| | | \ PBGTL | | P | D#: 78864 | | _ |
| | | T.B. ~ 6' | | Pi | | NLLBG | T |
| | | B.G. | | <u>P.</u> | J#: Z2-00 6 | | |
| | | | | | ermit date(s): | 06/1 | |
| | | | | O(Tan | CD Appr. date(s) k OVM = Orga | : 04/1 nic Vapor Me | |
| | W.H. | | | ID | | per million | |
| | \oplus | | V 6 D D | <u>A</u> | BGT Sidewalls V | | <u> </u> |
| NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO | IN DEDDESSION - B.C DELONYODADE I | R - RELOWLTH - TEST HOLE. | X - S.P.D. | | BGT Sidewalls V | | |
| T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELI | DW-GRADE TANK LOCATION; SPD = SAMF | PLE POINT DESIGNATION; R.W.: | = RETAINING WALL; NA - NOT | "∥Гм | agnetic declina | ation: 10 | °E |
| APPLICABLE OR NOT AVAILABLE; SW-SINGLE TRAVEL NOTES: CALLOUT: | WALL; DW - DOUBLE WALL; SB - SINGLE | _ | M. 10/12/12 | | | | |
| TRAVEL NOTES: CALLOUT: | | ONSITE: | 10/14/14 | | | | |

Analytical Report

Lab Order 1210782

Date Reported: 10/24/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 95 BGT 5-pt @6'

Project: GCU 139

Collection Date: 10/12/2012 12:50:00 PM

Lab ID: 1210782-001

Matrix: SOIL

Received Date: 10/16/2012 9:55:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|----------------------------------|----------|----------|----------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANGE (| DRGANICS | | | | Analyst: JMP |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 10/18/2012 4:18:02 PM |
| Surr: DNOP | 91.3 | 77.6-140 | %REC | 1 | 10/18/2012 4:18:02 PM |
| EPA METHOD 8015B: GASOLINE RANG | SE . | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 10/21/2012 1:18:40 AM |
| Surr: BFB | 89.4 | 84-116 | %REC | 1 | 10/21/2012 1:18:40 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | mg/Kg | 1 | 10/21/2012 1:18:40 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 10/21/2012 1:18:40 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 10/21/2012 1:18:40 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 10/21/2012 1:18:40 AM |
| Surr: 4-Bromofluorobenzene | 96.9 | 80-120 | %REC | 1 | 10/21/2012 1:18:40 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SRM |
| Chloride | ND | 7.5 | mg/Kg | 5 | 10/19/2012 5:18:30 PM |
| EPA METHOD 418.1: TPH | | | | | Analyst: JMP |
| Petroleum Hydrocarbons, TR | ND | 19 | mg/Kg | 1 | 10/18/2012 |

Qualifiers:

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

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 1 of 6

| C | hain- | of-Cu | stody Record | Turn-Around | Time: | | | | | | | | | _ | | # TE 15 | | | . <i>a</i> == | | | |
|---------|----------------------|----------------------------|--|----------------------------|-----------------------|----------------------------|--------------------------|-----------|------------------------------|-------------------------------|--------------------|--------------------|-----------|---------------|---|-------------------|---------------|-----------------|---------------|-----------|---------------|--|
| Client: | BLAGG | - ENGI. | NEERING INC. | Standard | □ Rush | 1 | | | | | | | | | | | | | | NT \TC | | 7 |
| | 12.D 1 | \ \ \ = = = | . 1 | Project Name | | | | | 4. | <u> </u> | | | | | | | • | | | L I & | <i>9</i> FC 1 | ſ |
| Mailing | Address | PO. | Box 87 | 60 | U 13° | 7 | | | 49 | 01 H | awki | | | lenv Alb | | | | | 7109 | | | |
| Ĩ | BLOOM | 1F1ELL | NM 87413 | Project #: | | " | , | 1 | | | 5-34 | | | | | | | -410 | | | | |
| Phone | #: 5 | 05-1 | 632-1197 | | | | | 20 + 2 | | - , 3 b | | | ĀΑ | naly | /sis | Req | ues | | | 5° 6 | ر در به خد | 10 |
| email o | | | | Project Mana | ger: | | | | | | | 1 | | | | | ₩ | | | | | |
| QA/QC I | Package: dard | | ☐ Level 4 (Full Validation) | J. 1 | BLAGG | | | s (8021 | Gas or | as/Dies | i | 1 | | | PO ₄ ,SC | PCB's | | | | | | |
| Accredi | tation | | · · · · · · · · · · · · · · · · · · · | Sampler: J | | | | 1 | 표 | 3 (6 | = | = | | | Ş Ş | 8082 | | | | | | _ |
| □ NEL | □ NELAP □ Other | | | Childe | | | | | | 315 | 18 | 9 | ₹I | | ő | 8 / 8 | | Æ | W | | | 늉 |
| □ EDD | (Type) | | | Sample Fem | feralime // | 5 % | | | BE | Ø 0 | pd 4 | g | P | stals | ž | ğ | æ | 2 | 4 | | Į | ≥ |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | | Alvo 1822 | BTEX-MI | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA | RCRA 8 Metals | Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / | 8260B (VOA) | 8270 (Semi-VOA) | CHUORIDE | | | Air Bubbles (Y or N) |
| 12/12 | 1250 | SOIL | 95 BGT 5-Pt C.6" | HOZXI | cecl | - (| loc | X | _ | X | X | 7 | | | | | <u> </u> | ~ | X | | | Ť |
| | | | • | | | | | | | | | | | | | | | | | \top | | T |
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| | | | | <u> </u> | | <u> </u> | | | | | | | | | | | | | \dashv | \bot | | $oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$ |
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| | | | | | | | | | | | | | | | | | | | | 丁 | | Г |
| Date: | Time: 1245 Time: | Relinquishe Relinquishe | 1 Berry | Received by: Received by: | e Wals | Date 10/ 15/ Date | Time //12 / 12:45 Time | Ren Bi | narks .C.C. | BF | GR >: 6 | 0 00 k | × 1 7 | DA V 1 | 55 55 | 02 77 | 9 171 B | 015 | B | | Į. | <u> </u> |
| 15/12 | 1716 | Chow | stre Wheler | A | 10/14 | 0/12 | 0955 | BF | > a | シルナ | -Aeī | - : | JE | E <i>FF</i> | · <i>P</i> | EA | CF. | | _ | | | |
| l1 | necessarv. | SMMØIES SUDN | nitted to Hall Environmental mav be subo | contracted to other ac | codedited laboratorie | es. I his servi | es as notice of this | dissoa : | olitv. A | ınv sub | -contra | acted : | data w | vill be | cleartv | notat | ed on | the an | alvtica | report. | | |

Hall Environmental Analysis Laboratory, Inc.

WO#:

1210782 24-Oct-12

Client:

Blagg Engineering

Project:

GCU 139

Sample ID MB-4428

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 4428

RunNo: 6391

Prep Date:

10/19/2012

Analysis Date: 10/19/2012

SeqNo: 183848

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-4428

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 6391

Client ID: LCSS Batch ID: 4428

Prep Date: 10/19/2012 Analysis Date: 10/19/2012

SeqNo: 183849

Units: mg/Kg HighLimit

%RPD

Qual

Analyte

Result PQL 1.5

SPK value SPK Ref Val %REC

100

90

LowLimit

Chloride

15

15.00

SPK value SPK Ref Val %REC LowLimit

110

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

ŀΙ Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210782

24-Oct-12

Client:

Blagg Engineering

Project:

GCU 139

| Tioject. GCO I | | | | | | | |
|----------------------------|---------------------------|---------------------------|----------------|---------------|--|--|--|
| Sample ID MB-4345 | SampType: MBLK | TestCode: EPA Method | 418.1: TPH | | | | |
| Client ID: PBS | Batch ID: 4345 | RunNo: 6337 | | | | | |
| Prep Date: 10/16/2012 | Analysis Date: 10/18/2012 | SeqNo: 182413 | Units: mg/Kg | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | |
| Petroleum Hydrocarbons, TR | ND 20 | | | | | | |
| Sample ID LCS-4345 | SampType: LCS | TestCode: EPA Method | 418.1: TPH | | | | |
| Client ID: LCSS | Batch ID: 4345 | RunNo: 6337 | | | | | |
| Prep Date: 10/16/2012 | Analysis Date: 10/18/2012 | SeqNo: 182414 | Units: mg/Kg | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | |
| Petroleum Hydrocarbons, TR | 100 20 100.0 | 0 103 80 | 120 | | | | |
| Sample ID LCSD-4345 | SampType: LCSD | TestCode: EPA Method | 418.1: TPH | | | | |
| Client ID: LCSS02 | Batch ID: 4345 | RunNo: 6337 | | | | | |
| Prep Date: 10/16/2012 | Analysis Date: 10/18/2012 | SeqNo: 182415 | Units: mg/Kg | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | |
| Petroleum Hydrocarbons, TR | 99 20 100.0 | 0 98.6 80 | 120 4.04 | 20 | | | |

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210782

24-Oct-12

Client:

Blagg Engineering

Project:

GCU 139

| Project: | GCU 139 |) | | | | | | | | | | |
|-----------------------------------|-----------------|-------------|---------------|-----------|---|------------------|-----------|-------------|------------|-------------|------|--|
| Sample ID | MB-4369 | SampT | /pe: Mil | BLK | TestCode: EPA Method 8015B: Diesel Range Organics | | | | | | | |
| Client ID: | PBS | Batch | ID: 43 | 69 | RunNo: 6325 | | | | | | | |
| Prep Date: | 10/17/2012 | Analysis Da | ate: 1 | 0/18/2012 | 5 | SeqNo: 1 | 82210 | Units: mg/l | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| - | Organics (DRO) | ND | 10 | 40.00 | | 400 | ~~ . | 4.40 | | | | |
| Surr: DNOP | | 10 | | 10.00 | | 102 | 77.6 | 140 | | | | |
| Sample ID | LCS-4369 | SampTy | /pe: LC | s | Tes | tCode: El | PA Method | 8015B: Dies | el Range C | Organics | | |
| Client ID: | LCSS | Batch | ID: 43 | 69 | F | RunNo: 6 | 325 | | | | | |
| Prep Date: | 10/17/2012 | Analysis Da | ate: 10 | 0/18/2012 | S | SeqNo: 1 | 82211 | Units: mg/h | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| - | Organics (DRO) | 44 | 10 | 50.00 | 0 | 87.4 | 52.6 | 130 | | | | |
| Surr: DNOP | | 4.4 | | 5.000 | | 87.6 | 77.6 | 140 | | | | |
| Sample ID | MB-4397 | SampTy | pe: Mi | BLK | Tes | tCode: EF | PA Method | 8015B: Dies | el Range C | Organics | | |
| Client ID: | PBS | Batch | ID: 43 | 97 | F | tunNo: 6 | 325 | | | | | |
| Prep Date: | 10/18/2012 | Analysis Da | ate: 10 | 0/18/2012 | S | SeqNo: 18 | 82283 | Units: %RE | С | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Surr: DNOP | | 10 | | 10.00 | | 103 | 77.6 | 140 | | | | |
| Sample ID | LCS-4397 | SampTy | pe: LC | s | Tes | Code: EF | PA Method | 8015B: Dies | el Range C | Organics | | |
| Client ID: | LCSS | Batch | ID: 43 | 97 | F | tunNo: 6 | 325 | | | | | |
| Prep Date: | 10/18/2012 | Analysis Da | ate: 10 | 0/18/2012 | S | eqNo: 18 | 82284 | Units: %RE | С | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Surr: DNOP | | 4.3 | | 5.000 | | 86.9 | 77.6 | 140 | | | | |
| Sample ID | 1210811-013CMS | SampTy | pe: MS | | Tes | :Code: EF | PA Method | 8015B: Dies | el Range C | Drganics | | |
| Client ID: | BatchQC | Batch | ID: 43 | 69 | R | unNo: 63 | 331 | | | | | |
| Prep Date: | 10/17/2012 | Analysis Da | ite: 10 |)/18/2012 | S | eqNo: 18 | 82453 | Units: mg/K | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range (| Organics (DRO) | 35 | 10 | 50.51 | 0 | 68.3 | 57.2 | 146 | | | | |
| Surr: DNOP | | 4.3 | | 5.051 | | 86.0 | 77.6 | 140 | | | | |
| Sample ID | 1210811-013CMSI | SampTy | pe: MS | SD . | Test | Code: EF | PA Method | 8015B: Dies | el Range C | Organics | | |
| Client ID: BatchQC Batch ID: 4369 | | | | | R | unNo: 63 | 331 | | | | | |
| Prep Date: | 10/17/2012 | Analysis Da | ite: 10 |)/18/2012 | S | eqNo: 18 | 32454 | Units: mg/K | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| _ | Organics (DRO) | 31 | 9.6 | 48.03 | 0 | 63.7 | 57.2 | 146 | 12.0 | 24.5 | | |
| Surr: DNOP | | 4.0 | | 4.803 | | 84.0 | 77.6 | 140 | 0 | 0 | | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210782

24-Oct-12

Client:

Blagg Engineering

Project:

GCU 139

| Sample ID LCS-4331 | SampT | ype: LC | s | Tes | tCode: El | EPA Method 8015B: Gasoline Range | | | | | |
|-------------------------------|------------|---------------|-----------|------------------|-----------|----------------------------------|--------------|------|----------|------|--|
| Client ID: LCSS | Batch | ID: 43 | 31 | R | RunNo: 6 | 371 | | | | | |
| Prep Date: 10/16/2012 | Analysis D | ate: 10 |)/20/2012 | 12 SeqNo: 183174 | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 89.1 | 74 | 117 | | | | |
| Surr: BFB | 940 | | 1000 | | 94.1 | 84 | 116 | | | | |

| Sample ID 1210690-002AMS | Tes | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------|--|-----------|-------------|---------------|----------|-----------|--------------|----------|------|
| Client ID: BatchQC | Batch | atch ID: 4331 RunNo: 6371 | | | | | | | | |
| Prep Date: 10/16/2012 | Analysis Date: 10/20/2012 | | | 8 | SeqNo: 183177 | | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 18 | 4.9 | 24.56 | 0 | 75.0 | 70 | 130 | | | |
| Surr: BFB | 970 | | 982.3 | | 98.5 | 84 | 116 | | | |

| Sample ID 1210690-002AM | TestCode: EPA Method 8015B: Gasoline Range | | | | | | | | | |
|---|--|----------|-----------|-------------|-------|-------------|-----------|------|----------|------|
| Client ID: BatchQC | A | RunNo: 6 | 371 | | | | | | | |
| Prep Date: 10/16/2012 Analysis Date: 10/20/2012 | | | S | SeqNo: 1 | 83178 | Units: mg/h | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.9 | 24.51 | 0 | 86.5 | 70 | 130 | 14.0 | 22.1 | |
| Surr: BFB | 960 | | 980.4 | | 97.7 | 84 | 116 | 0 | 0 | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210782

24-Oct-12

Client:

Blagg Engineering

Project:

GCU 139

| Project: | GCU 139 |) | | | | | | | | | | |
|----------------|---|--------------------|------------------|-----------|--------------------|---------------------------------------|-----------|-------------|------------|----------|------|--|
| Sample ID | MB-4331 | 331 SampType: MBLK | | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
| Client ID: | PBS | Batch ID: 4331 | | | RunNo: 6371 | | | | | | | |
| Prep Date: | 10/16/2012 | Analysis E |)ate: 1 | 0/20/2012 | 5 | SeqNo: 1 | 83194 | Units: mg/l | ∢ 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 | | ND | 0.10 | | | | | | | | | |
| Surr: 4-Bron | nofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | | |
| Sample ID | LCS-4331 | SampT | ype: LC | s | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | | |
| Client ID: | LCSS | Batch | n ID: 43 | 31 | F | RunNo: 6 | 371 | | | | | |
| Prep Date: | 10/16/2012 | Analysis D | ate: 10 | 0/20/2012 | S | SeqNo: 1 | 83195 | Units: mg/h | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | | 1.0 | 0.050 | 1.000 | 0 | 104 | 76.3 | 117 | | | | |
| Toluene | | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | | |
| Ethylbenzene | | 1.0 | 0.050 | 1.000 | 0 | 105 | 77 | 116 | | | | |
| Xylenes, Total | | 3.2 | 0.10 | 3.000 | 0 | 106 | 76.7 | 117 | | | | |
| Surr: 4-Brom | nofluorobenzene | 1.1 | | 1.000 | | 107 | 80 | 120 | | | | |
| Sample ID | 1210690-001AMS | SampT | ype: M \$ | 3 | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | | |
| Client ID: | BatchQC | Batch | n ID: 43 | 31 | RunNo: 6371 | | | | | | | |
| Prep Date: | 10/16/2012 | Analysis D | ate: 10 | 0/20/2012 | S | SeqNo: 1 | 83197 | Units: mg/h | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | | 0.97 | 0.048 | 0.9681 | 0 | 99.7 | 67.2 | 113 | | | | |
| Toluene | | 0.99 | 0.048 | 0.9681 | 0 | 102 | 62.1 | 116 | | | | |
| Ethylbenzene | | 1.0 | 0.048 | 0.9681 | 0.004069 | 103 | 67.9 | 127 | | | | |
| Xylenes, Total | | 3.1 | 0.097 | 2.904 | 0.08202 | 104 | 60.6 | 134 | | | | |
| Surr: 4-Brom | ofluorobenzene ————————————————————————————————— | 1.0 | | 0.9681 | | 105 | 80 | 120 | | | | |
| Sample ID | 1210690-001AMSE | SampT | уре: М S | SD | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | | |
| Client ID: | BatchQC | Batch | 1D: 43 | 31 | F | RunNo: 6 | 371 | | | | | |
| Prep Date: | 10/16/2012 | Analysis D | ate: 10 | 0/20/2012 | S | SeqNo: 1 | 83198 | Units: mg/k | (g | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | | 0.95 | 0.048 | 0.9671 | 0 | 98.5 | 67.2 | 113 | 1.30 | 14.3 | | |
| Toluene | | 0.99 | 0.048 | 0.9671 | 0 | 102 | 62.1 | 116 | 0.257 | 15.9 | | |
| Ethylbenzene | | 1.0 | 0.048 | 0.9671 | 0.004069 | 103 | 67.9 | 127 | 0.132 | 14.4 | | |
| Xylenes, Total | | 3.0 | 0.097 | 2.901 | 0.08202 | 102 | 60.6 | 134 | 1.59 | 12.6 | | |
| | | ~ ~~ | | 0.0074 | | 00.0 | 0.0 | 400 | ^ | ^ | | |

0.9671

Qualifiers:

* Value exceeds Maximum Contaminant Level.

0.97

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

B Analyte detected in the associated Method Blank

80

120

0

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

99.8

R RPD outside accepted recovery limits

Page 6 of 6



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

| Clie | nt Name: | BLAGO | | | Wo | ork Ord | der N | dumt | er: 1 | 210782 | | |
|------------|------------------------------|---------------|--|--|----------|----------------|------------|--|------------|--|--|-------------------|
| Rec | ceived by/datę | 1 | \Rightarrow 1 | Dlull | 2 | | | | | | | |
| Log | ged By: | Ashley Gal | legos | 10/16/2012 9:5 | 5:00 AM | | | | = | 7 | | |
| Con | npleted By: | Ashley Gal | legos | 10/16/2012 12: | 56:41 PM | ŀ | | | A | iz Z | | |
| Rev | riewed By: 🏒 | 30 no/c | 6/12 | | | | | | | V | | |
| | in of Cust | | , | | | | | | | | | |
| 1. | Were seals in | ntact? | | | | Yes | • ; | No | • | Not Present ✓ | e . | |
| 2. | Is Chain of C | custody comp | olete? | | | Yes | V | No | . ; | Not Present | | |
| 3. | How was the | sample deli | vered? | | | Cour | <u>ier</u> | | | | | |
| Log | <u>In</u> | | | | | | | | | | • | |
| 4. | Coolers are p | present? (see | e 19. for cooler sp | ecific informatior | 1) | Yes | V | No | • | NA : | 1 | |
| 5 . | Was an atter | mpt made to | cool the samples | ? | | Yes | . | No | 1 | NA ! | ! | |
| 6. | Were all sam | nples receive | d at a temperature | e of >0° C to 6.0 | °C | Yes | V | No | i t | NA Í | : | |
| 7. | Sample(s) in | proper conta | ainer(s)? | | | Yes | V: | No | | | | |
| 8. | Sufficient sar | mple volume | for indicated test(| s)? | | Yes | V. | No | į į | | | |
| 9. | Are samples | (except VOA | and ONG) prope | rly preserved? | | Yes | V | Νo | : | | | |
| 10. | Was preserv | ative added t | to bottles? | | | Yes | ; ; | No | V : | NA | - | • |
| 11. | VOA vials ha | ive zero head | ispace? | | | Yes | | No | : | No VOA Vials | e i | |
| | | | ers received brok | en? | | Yes | | | | 1 | | |
| 13. | Does paperw (Note discrep | | ottle labels? nain of custody) | | | Yes | V | No | i | # of prese bottles ch for pH: | | |
| 14. | Are matrices | correctly ide | ntified on Chain o | f Custody? | | Yes | v | No | : | 13. 4 | (<2 or | >12 unless noted) |
| 15. | ls it clear wha | at analyses v | vere requested? | | | Yes | • | No | : | Adju | isted? | |
| , | Were all hold | - | le to be met? authorization.) | | | Yes | V | No | | Char | alcod by | |
| | cial Handl | | , | ` | | | | | | Chec | ked by: | |
| | | | liscrepancies with | this order? | | Yes | i | No | i : | NA N | / i | |
| | Person | Notified: | | TA LUPANAMATAN A SAMATANAMATAN | Date: | Lord F. Commis | | ******** | | AND PARTY OF THE P | | |
| | By Who | | | ************************************** | Via: | eMai | ſ | : Ph | one | Fax In P | erson | • |
| | Regardi | 5 | A CONTRACTOR OF THE CONTRACTOR | Alberta de la composição | | | MANIA N | ~~~ | | | 100 Care 100 | r i |
| | Client Ir | nstructions: | And the second s | The state of the s | | | | ************************************** | | | *************************************** | |
| 18. | Additional re | marks: | | | | | | | | | | |

19. Cooler Information

| Cooler No | Temp ºC | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 3.8 | Coou | Not Present | | | |



