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

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

Form C-144 July 21, 2008

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:<br>Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method<br>Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method<br>Modification to an existing permit<br>Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,<br>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.   |
| 1.<br>Operator: BP AMERICA PRODUCTION COMPANY OGRID # 778   |
| Address: 200 Energy Court, Farmington, NM 87401   |
| Facility or well name: GALLEGOS CANYON UNIT 516   |
| API Number: 3004528063 OCD Permit Number:   |
| U/L or Qtr/Qtr L Section 7.0 Township 28.0N Range 11W County: San Juan County   |
| Center of Proposed Design: Latitude <u>36.67424</u> Longitude <u>-108.05068</u> NAD: 1927 🛪 1983  |
| Surface Owner: 🛄 Federal 🗷 State 🔲 Private 🗍 Tribal Trust or Indian Allotment   |
| 2.<br>Dill CONS. DIV DIST. 3  |
| Det: 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   |
| String-Reinforced   |
| Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx W x 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:       Thickness       mil       LLDPE       HDPE       PVC       Other         Liner Seams:       Welded       Factory       Other |
| 4. <b>Example 1 Example 1 Below-grade tank:</b> Subsection 1 of 19.15.17.11 NMAC Tank ID: _A  |
| 5. Alternative Method:  |

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify <u>4' Hogwire with single barbed wire</u>

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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

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 office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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 accep     | table source   |
|---|----------------|
| material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approp  | riate district |
| office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of ap    | proval.        |
| Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryin | ng pads or     |
| above-grade tanks associated with a closed-loop system.   |                |
|   |                |

| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | Yes No   |
|--|--|
| <ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | JG /2/19/13  |
| <ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>  | □ Yes 🗷 No<br>□ NA                                   |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>(Applies to permanent pits)<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   | ☐ Yes ☐ No<br>▼ 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.<br>- 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<br>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | Yes      No     Yes      No     Yes      Yes      No |
| Within 500 feet of a wetland.<br>- 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.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  | 🗌 Yes 🗶 No   |
| <ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological<br/>Society; Topographic map</li> </ul>  | 🗋 Yes 🔀 No   |
| Within a 100-year floodplain.<br>- FEMA map  | 🗌 Yes 🗷 No   |

| <ul> <li>11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u>: Subsection B of 19.15.17.9 NMAC</li> <li><i>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.</i></li> <li>A Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>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</li> <li>Previously Approved Design (attach copy of design) API Number: or Permit Number:</li> </ul>  |
|---|
| 12.         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 Design (attach copy of design) API Number:  |
| 13.         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         Sitting 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         Lark Detection Design - 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 19.15.17.11 NMAC         Reresponse Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Errosion Control Plan         Clissure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| 14.         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)  |
| <ul> <li><sup>15.</sup> 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.</li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC</li> </ul>  |

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| <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins (</u><br>Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings facilities are required.   | Use attachment if more than two  |
|---|--|
|   | er:  |
| Disposal Facility Name: Disposal Facility Permit Numb   | :r:  |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not to Yes (If yes, please provide the information below) $\square$ No  | e used for future service and operations?                                    |
| Required for impacted areas which will not be used for future service and operations:           Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC           Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC   | f 19.15.17.13 NMAC   |
| <sup>17.</sup><br><u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC<br>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendation<br>provided below. Requests regarding changes to certain siting criteria may require administrative approval from<br>considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration<br>demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.  | the appropriate district office or may be                                    |
| Ground water is less than 50 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | Yes No   |
| Ground water is between 50 and 100 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | Yes No   |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | ☐ Yes ☐ No<br>☐ NA   |
| <ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed,</li> <li>lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | sinkhole, or playa 📋 Yes 🗋 No  |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initia<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | application. Yes No  |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for do watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed sites at the time of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed sites at the time of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - iWATERS database; Visual inspection (certification) of the proposed site of the state engineer - | initial application.   |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a mu adopted pursuant to NMSA 1978, Section 3-27-3, as amended.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipalit   |  |
| <ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the</li> </ul>   | proposed site  |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | 🗌 Yes 🗌 No   |
| Within an unstable area.<br>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS;<br>Society; Topographic map  | M Geological 🛛 Yes 🗌 No  |
| Within a 100-year floodplain.<br>- FEMA map   | Yes No   |
| <ul> <li>18.</li> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attack by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NM</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NM</li> <li>Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NM</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site cle Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC</li> </ul>   | AAC<br>17.11 NMAC<br>requirements of 19.15.17.11 NMAC<br>15.17.13 NMAC<br>AC |

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| 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 belief  | f.  |
| Name (Print): Jeffrey Peace Title: Field Environmental Advisor   |   |
| Signature:   |   |
| e-mail address: Peace. Jeffrey@pp.com Telephone: 505-326-9479  |   |
| 20.<br>OCD Approval: Permit Application (including closure plan, Closure Plan (only) CD/M nditions (see attachment)  |   |
| OCD Representative Signature   | 17  |
|  | >   |
| Title: Serier Hydroogist OCD Permit Number:  |   |
| 21.<br><u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of 19.15.17.13 NMAC<br>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the<br>The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not c<br>section of the form until an approved closure plan has been obtained and the closure activities have been completed.<br>Closure Completion Date: | the closure report.<br>complete this<br>SH 6/5/2014 |
| 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loo) If different from approved plan, please explain.   | p systems only)                                     |
| 23.<br>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, drilling fluids and drill cuttings were disposed. Use attach two facilities were utilized.  | ment if more than                                   |
| 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 in areas that will not be used for future service and oper<br>Yes (If yes, please demonstrate compliance to the items below) No   |   |
| Required for impacted areas which will not be used for future service and operations:  |   |
| <ul> <li>Site Reclamation (Photo Documentation)</li> <li>Soil Backfilling and Cover Installation</li> </ul>  |   |
| Re-vegetation Application Rates and Seeding Technique  |   |
| 24.<br>Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indi  | Sente has a beach                                   |
| and the box, that the documents are attached.  | care, by a check                                    |
| <ul> <li>Proof of Closure Notice (surface owner and division)</li> <li>Proof of Deed Notice (required for on-site closure)</li> </ul>  |   |
| Plot Plan (for on-site closures and temporary pits)  |   |
| Confirmation Sampling Analytical Results (if applicable)   |   |
| <ul> <li>Waste Material Sampling Analytical Results (required for on-site closure)</li> <li>Disposal Facility Name and Permit Number</li> </ul>  |   |
| Soil Backfilling and Cover Installation  |   |
| <ul> <li>Re-vegetation Application Rates and Seeding Technique</li> <li>Site Reclamation (Photo Documentation)</li> </ul>  |   |
| On-site Closure Location: Latitude 36.67.424 Longitude -108.03.058 NAD: 1927   | 1983  |
| 25.<br>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 kn   | nowledge and  |
|  | , ě   |
| Name (Print): Jeft Peace Title: Area Environmental Ad  | visor   |
| Signature: Off Peace Date: May 12, 2014  |   |
| belief. I also certify that the closure complex with all applicable closure requirements and conditions specified in the approved closure pl<br>Name (Print): Jeff Peace Title: Area Environ mental Ad<br>Signature: Vertice Place Date: May 12, 2014<br>e-mail address: peace jeffrey Obp.com Telephone: (505) 326-9479   |   |

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## BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

#### <u>Gallegos Canyon Unit 516</u> <u>API No. 3004528063</u> <u>Unit Letter L, Section 7, T28N, R11W</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 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 means and the prime of the notice requirements. Closure

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    | 38      |

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.

- 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.
   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 covered by the LPT 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.

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 covered by the LPT 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 area over the BGT is covered by the LPT 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.

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<br>1625 N. French Dr., Hobbs, NM 88240<br>District II   | State of Energy Minera  | of New Mex<br>ls and Natura                           |   |  | Re   | -                            | Form C-141<br>August 8, 2011      |
|--|---|---|---|--|--|------------------------------|-----------------------------------|
| <ul> <li>811 S. First St., Artesia, NM 88210</li> <li><u>District III</u></li> <li>1000 Rio Brazos Road, Aztec, NM 87410</li> <li><u>District IV</u></li> <li>1220 S. St. Francis Dr., Santa Fe, NM 87505</li> </ul>   | 1220 Sou  | ervation Div<br>1th St. Franc<br>Fe, NM 875           | is Dr.  | Submit 1 Copy<br>ac  | to appropriat<br>cordance wit                      | te Dist<br>h 19.1            | rict Office in<br>5.29 NMAC.      |
| Re   | lease Notificati  | on and Co   | orrective A   | ction  |  |                              |                                   |
|  |   | <b>OPERA</b>  | ГOR   | . 🔲 Initia   | al Report  | $\boxtimes$                  | Final Report                      |
| Name of Company: BP  |   | Contact: Jef  | f Peace   |  |  |                              | <b>.</b>                          |
| Address: 200 Energy Court, Farmington,   |   | Telephone 1   | No.: 505-326-94   | 79   |  |                              |                                   |
| Facility Name: Gallegos Canyon Unit 51   | 5   | Facility Typ  | e: Natural gas v  | vell   |  |                              |                                   |
| Surface Owner: State   | Mineral Owne  | r: State  |   | API No   | . 300452800  | 63                           |                                   |
|  | LOCATI  | ON OF REI   | LEASE   |  |  |                              |                                   |
| Unit LetterSectionTownshipRangeL728N11W  |   | th/South Line   | Feet from the<br>950  | East/West Line<br>West   | County: Sa   | n Juan                       |                                   |
| Latitude   | _36.67424   | Longitud  | e_108.05068_  |  |  |                              |                                   |
|  | NATUR   | E OF REL  | EASE  |  |  |                              |                                   |
| Type of Release: none  |   |   | Release: N/A  |  | Recovered: N/                                      |                              |                                   |
| Source of Release: below grade tank - 95 bbl   |   |   | lour of Occurrenc   | e: Date and  | Hour of Disc                                       | overy:                       |                                   |
| Was Immediate Notice Given?  |   | If YES, To  | Whom?   |  |  |                              |                                   |
|  | 🗌 No 🛛 Not Require  |   |   |  |  |                              |                                   |
| By Whom?   |   | Date and H  |   |  |  |                              | <u> </u>                          |
| Was a Watercourse Reached?   | 🛛 No  | IT YES, VO  | olume Impacting t   | he Watercourse.  |  |                              |                                   |
| If a Watercourse was Impacted, Describe Full   | y.*   | l   |   |  |  |                              |                                   |
| Describe Cause of Problem and Remedial Act<br>the BGT. Soil analysis resulted in TPH, BTE<br>Describe Area Affected and Cleanup Action T<br>backfilled and compacted and is still within the   | X and chloride below sta  | ndards. Analys  | sis results are attac   | ched.  |  |                              |                                   |
| I hereby certify that the information given abore<br>regulations all operators are required to report<br>public health or the environment. The accepta<br>should their operations have failed to adequate<br>or the environment. In addition, NMOCD acc<br>federal, state, or local laws and/or regulations. | and/or file certain release<br>ince of a C-141 report by<br>ely investigate and remed<br>eptance of a C-141 repor | e notifications as<br>the NMOCD m<br>iate contaminati | nd perform correc<br>arked as "Final R<br>on that pose a thre | tive actions for rele<br>eport" does not reli<br>eat to ground water | eases which n<br>ieve the opera<br>r, surface wate | nay en<br>itor of<br>er, hur | danger<br>liability<br>nan health |
| Signature: Jeff Peace  |   | Approved by   | OIL CONS  | SERVATION  | DIVISIO  | <u>N</u>                     |                                   |
| Printed Name: Jeff Peace   |   | -   |   |  |  |                              |                                   |
| Title: Area Environmental Advisor  |   | Approval Dat  | te:   | Expiration   | Date:  |                              |                                   |
| E-mail Address: peace.jeffrey@bp.com   | <u></u>   | Conditions of   | f Approval:   |  | Attached   |                              |                                   |
| Date: May 14, 2014 Phone:  | 505-326-9479  |   |   |  |  |                              |                                   |

\* Attach Additional Sheets If Necessary

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| CLIENT: BP   | P.O. BOX 87, BL  | GINEERING,<br>OOMFIELD,<br>) 632-1199     |  | API #: <b>3004528</b><br>TANK ID<br>(if applicble): <b>A</b>   | 063                            |
|--|--|---|--|--|--------------------------------|
| FIELD REPORT:  | (circle one): BGT CONFIRMATION / F                         | RELEASE INVESTIGATION                     | / OTHER:                                     | PAGE #: _ <b>1</b> c   | f <b>1</b>                     |
| SITE INFORMATION:<br>QUAD/UNIT: L SEC: 7 TWP:<br>1/4 -1/4/FOOTAGE: 1,745'S/950'W   | SITE NAME: GCU # 51<br>28N RNG: 11W PM:<br>NW/SW LEASE TYP | NM CNTY:                                  |  | DATE STARTED:  | 26/13                          |
| LEASE #:P  | PROD. FORMATION: PC CON                                    | ELKHO                                     | DRN<br>S. GLYNN                              |  | CB                             |
| 2)   | GPS COORD.:  | 67424 X 108.050                           | 68 DISTANCE/BE<br>DISTANCE/BE<br>DISTANCE/BE | ARING FROM W.H.:            SARING FROM W.H.:  | ,426'<br>S75E                  |
|  | CHAIN OF CUSTODY RECORD(S) # OR SAMPLE DATE: 07/26/13      | LAB USED:                                 | HALL<br>15 lab analysis: 418.1/              | 8015B/8021B/300.0(Cl)  | OVM<br>READING<br>(ppm)<br>0.0 |
| 3) SAMPLE ID:           4) SAMPLE ID:  |  |   |  |  |                                |
| SAMPLE TYPE: GRAB <u>COMPOSITE</u> # (<br>DISCOLORATION/STAINING OBSERVED:<br>ANY AREAS DISPLAYING WETNESS: YES ( <u>NO</u><br>APPARENT EVIDENCE OF A RELEASE OE<br>ADDITIONAL COMMENTS: | YES NO EXPLANATION   | S/NO EXPLANATIO                           | )N :   |  |                                |
|  |  | ft. X <b>NA</b> ft.<br>NEAREST SURFACE WA |  | TIMATION (Cubic Yards) :<br>CD TPH CLOSURE STD: <b>100</b>   | NA<br>ppm                      |
|  |  | PLOT PLAN                                 |  | ICALIB. READ. =52.1 PP<br>ICALIB. GAS =100 PP<br>E:11:55mpmDATE:0<br>MISCELL. NO   |                                |
| W.H. $\begin{pmatrix} x \\ x \\ x \\ x \end{pmatrix}$  | PBGTL<br>- T.B. ~ 5<br>B.G.                                |   | F<br>F<br>F<br>C<br>Ta                       | VO:         N15217289           VO:         N15217289           PX:         ZEVH01BGT2           PJ #:         Z2-006L3-C           Permit date(s):         06/14           OCD Appr. date(s):         02/19           NK         OVM = Organic Vapor Me           OVM = Drganic Vapor Me         OVM = Parts per million           A         BGT Sidewalls Visible: Y / | /10<br>/13<br>ter<br>N         |

| CLIENT: Blagg Engineering     |            | (       | Client Samp | le ID:95          | BGT 5-pt@5'          |       |
|-------------------------------|------------|---------|-------------|-------------------|----------------------|-------|
| Project: GCU 516              |            |         | Collection  | Date: 7/2         | 26/2013 12:15:00 PM  |       |
| Lab ID: 1307D65-001           | Matrix: S  | SOIL    | Received    | <b>Date: 7</b> /3 | 0/2013 10:01:00 AM   |       |
| Analyses                      | Result     | RL Qual | Units       | DF                | Date Analyzed        | Batch |
| EPA METHOD 8015D: DIESEL RANG | E ORGANICS |         |             |                   | Analyst              | JME   |
| Diesel Range Organics (DRO)   | 10         | 10      | mg/Kg       | 1                 | 8/2/2013 6:56:17 PM  | 8651  |
| Surr: DNOP                    | 91.6       | 63-147  | %REC        | 1                 | 8/2/2013 6:56:17 PM  | 8651  |
| EPA METHOD 8015D: GASOLINE RA | NGE        |         |             |                   | Analyst              | NSB   |
| Gasoline Range Organics (GRO) | ND         | 4.8     | mg/Kg       | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| Surr: BFB                     | 88.6       | 80-120  | %REC        | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| EPA METHOD 8021B: VOLATILES   |            |         |             |                   | Analyst              | NSB   |
| Benzene                       | ND         | 0.048   | mg/Kg       | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| Toluene                       | ND         | 0.048   | mg/Kg       | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| Ethylbenzene                  | ND         | 0.048   | mg/Kg       | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| Xylenes, Total                | ND         | 0.097   | mg/Kg       | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| Surr: 4-Bromofluorobenzene    | 100        | 80-120  | %REC        | 1                 | 8/1/2013 6:34:38 PM  | 8655  |
| EPA METHOD 300.0: ANIONS      |            |         |             |                   | Analyst:             | JRR   |
| Chloride                      | 38         | 7.5     | mg/Kg       | 5                 | 8/2/2013 10:43:29 AM | 8696  |
| EPA METHOD 418.1: TPH         |            |         |             |                   | Analyst:             | LRW   |
| Petroleum Hydrocarbons, TR    | ND         | 20      | mg/Kg       | 1                 | 8/1/2013             | 8654  |

Hall Environmental Analysis Laboratory, Inc.

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

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.   | В  | Analyte detected in the associated Method Blank   |
|-------------|---|--|----|---|
|             | Е | Value above quantitation range             | Н  | Holding times for preparation or analysis exceeded  |
|             | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit Page 1 of 6   |
|             | 0 | RSD is greater than RSDlimit               | Р  | Not Detected at the Reporting Limit Page 1 of 6<br>Sample pH greater than 2 for VOA and TOC only. |
|             | R | RPD outside accepted recovery limits       |    | Reporting Detection Limit   |

Analytical Report Lab Order 1307D65

Date Reported: 8/6/2013

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: GCU 516

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| Sample ID: MB-8696  | SampType: MBLK                            | TestCode: EPA Method 300.0: Anions                           |
|---------------------|---|--|
| Client ID: PBS      | Batch ID: 8696                            | RunNo: <b>12405</b>  |
| Prep Date: 8/2/2013 | Analysis Date: 8/2/2013                   | SeqNo: 353018 Units: mg/Kg                                   |
| Analyte             | Result PQL SPK                            | value SPK Ref Vat %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride            | ND 1.5                                    |  |
|                     |   |  |
| Sample ID: LCS-8696 | SampType: LCS                             | TestCode: EPA Method 300.0: Anions                           |
|                     | SampType: LCS<br>Batch ID: 8696           | TestCode: EPA Method 300.0: Anions<br>RunNo: 12405           |
| Client ID: LCSS     |   | RunNo: <b>12405</b>  |
| Client ID: LCSS     | Batch ID: 8696<br>Analysis Date: 8/2/2013 | RunNo: <b>12405</b>  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 6

WO#: 1307D65

06-Aug-13

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Client: Blagg Engineering Project: GCU 516

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| Sample ID: MB-8654         | SampType: MBLK          | TestCode: EPA Method      | 418.1: TPH          |               |  |  |  |  |
|----------------------------|-------------------------|---------------------------|---------------------|---------------|--|--|--|--|
| Client ID: PBS             | Batch ID: 8654          | RunNo: 12331              |                     |               |  |  |  |  |
| Prep Date: 7/31/2013       | Analysis Date: 8/1/2013 | SeqNo: 350879             | Units: <b>mg/Kg</b> |               |  |  |  |  |
| Analyte                    | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD      | RPDLimit Qual |  |  |  |  |
| Petroleum Hydrocarbons, TR | ND 20                   |                           |                     |               |  |  |  |  |
| Sample ID: LCS-8654        | SampType: LCS           | TestCode: EPA Method      | 418.1: TPH          |               |  |  |  |  |
| Client ID: LCSS            | Batch ID: 8654          | RunNo: 12331              |                     |               |  |  |  |  |
| Prep Date: 7/31/2013       | Analysis Date: 8/1/2013 | SeqNo: 350880             | 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 99.4 80                 | 120                 |               |  |  |  |  |
| Sample ID: LCSD-8654       | SampType: LCSD          | TestCode: EPA Method      | 418.1: TPH          | <u></u>       |  |  |  |  |
| Client ID: LCSS02          | Batch ID: 8654          | RunNo: 12331              |                     |               |  |  |  |  |
| Prep Date: 7/31/2013       | Analysis Date: 8/1/2013 | SeqNo: 350881             | Units: <b>mg/Kg</b> |               |  |  |  |  |
| 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 1.38            | 20            |  |  |  |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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WO#: 1307D65

06-Aug-13

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU 516

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| Sample ID: MB-8651          | SampType: MBLK          | TestCode: EPA Method      | 8015D: Diesel Range Organics |     |
|-----------------------------|-------------------------|---------------------------|------------------------------|-----|
| Client ID: PBS              | Batch ID: 8651          | RunNo: 12312              |                              |     |
| Prep Date: 7/31/2013        | Analysis Date: 8/2/2013 | SeqNo: 351592             | Units: <b>mg/Kg</b>          |     |
| Analyte                     | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qu   | Jal |
| Diesel Range Organics (DRO) | ND 10                   |                           |                              |     |
| Surr: DNOP                  | 7.2 10.00               | 71.8 63                   | 147                          |     |
| Sample ID: LCS-8651         | SampType: LCS           | TestCode: EPA Method      | 8015D: Diesel Range Organics |     |
| Client ID: LCSS             | Batch ID: 8651          | RunNo: 12312              |                              |     |
| Prep Date: 7/31/2013        | Analysis Date: 8/2/2013 | SeqNo: 351593             | Units: <b>mg/Kg</b>          |     |
| Analyte                     | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qu   | lal |
| Diesel Range Organics (DRO) | 37 10 50.00             | 0 73.4 77.1               | 128 5                        | S   |
| Surr: DNOP                  | 3.0 5.000               | 59.9 63                   | 147 5                        | S   |
| Sample ID: LCS-8651         | SampType: LCS           | TestCode: EPA Method      | 8015D: Diesel Range Organics |     |
| Client ID: LCSS             | Batch ID: 8651          | RunNo: 12371              |                              |     |
| Prep Date: 7/31/2013        | Analysis Date: 8/2/2013 | SeqNo: 352158             | Units: <b>mg/Kg</b>          |     |
| Analyte                     | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qu   | Jal |
| Diesel Range Organics (DRO) | 46 10 50.00             | 0 92.5 77.1               | 128                          |     |
| Surr: DNOP                  | 4.1 5.000               | 81.4 63                   | 147                          |     |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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WO#: 1307D65

06-Aug-13

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WO#: 1307D65

06-Aug-13

| Client: Blag<br>Project: GCU  | g Engineering<br>516 |                  |           |             |              |           |             |           |          |      |  |
|-------------------------------|----------------------|------------------|-----------|-------------|--------------|-----------|-------------|-----------|----------|------|--|
| Sample ID: MB-8655            | Samp                 | Гуре: МЕ         | BLK       | Tes         | tCode: El    | PA Method | 8015D: Gaso | line Rang | e        |      |  |
| Client ID: PBS                | Batc                 | Batch ID: 8655   |           |             | RunNo: 12346 |           |             |           |          |      |  |
| Prep Date: 7/31/2013          | Analysis [           | Date: <b>8</b> / | 1/2013    | S           | SeqNo: 3     | 51757     | Units: mg/M | (g        |          |      |  |
| Analyte                       | Result               | PQL              | SPK value | SPK Ref Val | %REC         | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |  |
| Gasoline Range Organics (GRO  | ND                   | 5.0              |           |             |              |           |             |           |          |      |  |
| Surr: BFB                     | 880                  |                  | 1000      |             | 88.4         | 80        | 120         |           |          |      |  |
| Sample ID: LCS-8655           | Samp                 | Гуре: LC         | s         | Tes         | tCode: El    | PA Method | 8015D: Gasc | line Rang | e        |      |  |
| Client ID: LCSS               | Batc                 | h ID: 86         | 55        | F           | RunNo: 1     | 2346      |             |           |          |      |  |
| Prep Date: 7/31/2013          | Analysis [           | Date: <b>8</b> / | 1/2013    | S           | SeqNo: 3     | 51758     | Units: mg/K | g         |          |      |  |
| Analyte                       | Result               | PQL              | SPK value | SPK Ref Val | %REC         | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |  |
| Gasoline Range Organics (GRO) | 27                   | 5.0              | 25.00     | 0           | 107          | 62.6      | 136         |           |          |      |  |
| Surr: BFB                     | 960                  |                  | 1000      |             | 96.2         | 80        | 120         |           |          |      |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 6

Client: Blagg Engineering

Project: GCU 516

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| Sample ID: MB-8655             | 655 SampType: MBLK TestCode: EPA Method 8021B: Volatiles |                  |                |             |              |           |              |      |          |          |  |  |  |
|--------------------------------|--|------------------|----------------|-------------|--------------|-----------|--------------|------|----------|----------|--|--|--|
| Client ID: PBS                 | Batc   | h ID: 86         | 55             | F           | RunNo: 1:    | 2346      |              |      |          |          |  |  |  |
| Prep Date: 7/31/2013           | Analysis [   | Date: <b>8</b> / | 1/2013         | S           | eqNo: 3      | 51787     | Units: mg/Kg |      |          |          |  |  |  |
| Analyte                        | Result   | PQL              | SPK value      | SPK Ref Val | %REC         | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual     |  |  |  |
| Benzene                        | ND   | 0.050            |                |             |              |           |              |      |          |          |  |  |  |
| Foluene                        | ND   | 0.050            |                |             |              |           |              |      |          |          |  |  |  |
| Ethylbenzene                   | ND   | 0.050            |                |             |              |           |              |      |          |          |  |  |  |
| (ylenes, Total                 | ND   | 0.10             |                |             |              |           |              |      |          |          |  |  |  |
| Surr: 4-Bromofluorobenzene     | 1.0  |                  | 1.000          |             | 100          | 80        | 120          |      |          |          |  |  |  |
| Sample ID: LCS-8655            | Samp   | Гуре: LC         | S              | Tes         | tCode: EF    | PA Method | 8021B: Volat | iles |          | <u> </u> |  |  |  |
| Client ID: LCSS                | Batc   | h ID: 86         | 55             | F           | lunNo: 12    | 2346      |              |      |          |          |  |  |  |
| Prep Date: 7/31/2013           | Analysis [   | Date: <b>8/</b>  | 1/2013         | S           | eqNo: 3      | 51798     | Units: mg/K  |      |          |          |  |  |  |
| Analyte                        | Result   | PQL              | SPK value      | SPK Ref Val | %REC         | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual     |  |  |  |
| Benzene                        | 1.0  | 0.050            | 1.000          | 0           | 100          | 80        | 120          |      |          |          |  |  |  |
| Foluene                        | 0.97   | 0.050            | 1.000          | 0           | 96.7         | 80        | 120          |      |          |          |  |  |  |
|                                |  |                  |                |             |              |           | 100          |      |          |          |  |  |  |
| Ethylbenzene                   | 0.98   | 0.050            | 1.000          | 0           | 98.1         | 80        | 120          |      |          |          |  |  |  |
| Ethylbenzene<br>Kylenes, Total | 0.98<br>2.9  | 0.050<br>0.10    | 1.000<br>3.000 | 0<br>0      | 98.1<br>98.3 | 80<br>80  | 120          |      |          |          |  |  |  |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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WO#: **1307D65** *06-Aug-13* 

| С                  | hain     | of-Cu       | stody Record              | Turn-Around             | Time:                |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   |                      |
|--------------------|----------|-------------|---------------------------|-------------------------|----------------------|---------------|----------|--|------------------------------|-----------------------------|--|--------------------|----------------|----------------------|---|------------------------|-------------|-----------------|-------------|------------|---|----------------------|
| Olianti            |          |             | NEERWG INC.               | ∫<br>∭∑Standard         | 🗆 Rush               | 1             |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             | ENT<br>ATC |   |                      |
|                    | RP       |             | <u>сл</u>                 | Project Name            |                      |               |          |  | a'                           | -<br>                       |  |                    |                |                      |   |                        |             |                 |             |            |   | 2                    |
| Mailing            | Address  | PO          | CA<br>Box 87              | GCO                     | U 516                |               |          | www.hallenvironmental.com<br>4901 Hawkins NE - Albuquerque, NM 87109 |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   |                      |
|                    |          |             | NM 87413                  | Project #:              |                      |               |          |  |                              | el. 50                      |  |                    |                |                      |   | 505-                   |             |                 |             |            |   |                      |
| Phone #            |          |             | 632-1199                  |                         |                      |               |          |  |                              |                             | Contractor of the local division of the loca |                    | 14 A           |                      |   |                        |             |                 |             |            |   |                      |
| email o            |          | <u></u> _   |                           | Project Mana            | iger:                |               |          |  |                              |                             |  |                    |                | 4 W                  | <i>.</i>  |                        | . 1         |                 |             | in fraint  |   |                      |
|                    | Package: |             | tern and the second       | 1                       | BLAGG                |               |          | 021  | s on                         | Ħ                           |  |                    | ش              |                      | 4,SC  | PCB's                  |             |                 |             | I.         |   |                      |
| Stan               | dard     |             | Level 4 (Full Validation) |                         |                      |               |          | s (8   | (Ga                          | log<br>Q                    |  |                    | SIMS)          |                      | ,PO   | PO                     |             |                 |             |            |   |                      |
| Accredi            |          | □ Othe      | r                         | Sampler:                |                      |               |          |  | HdT +                        | 80 / DI                     | 18.1)  | 04.1)              | 8270           |                      | 03,NO2  | / 8082                 |             | A)              | <b>1</b> .1 |            |   | or N)                |
|                    | (Туре)_  |             |                           | Sample Terra            |                      |               | <b>.</b> | 出  | ШШ                           | ŋ                           | 4 b  | od 51              | 0 or           | etals                | NC<br>NC  | ides                   | 7           | ٥<br>۲          | ND &        |            |   | Ľ                    |
| Date               | Time     | Matrix      | Sample Request ID         | Container<br>Type and # | Preservative<br>Type | HEAL<br>120 A |          | BTEX + <u>MTBE + TM</u> B's (8021)                                   | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRD) | TPH (Method 418.1)   | EDB (Method 504.1) | PAH's (8310 or | <b>RCRA 8 Metals</b> | Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> ) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | CHLURDE     |            |   | Air Bubbles (Y or N) |
| 126/13             | 1215     | SOIL        | 95 BGT<br>5-pt C 5        | 402×1                   | COOL                 | - 1           | 21       | X  |                              | X                           | X  |                    |                |                      |   |                        |             |                 | X           |            |   |                      |
|                    |          |             | <i>y</i>                  |                         |                      |               | -        |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   |                      |
|                    |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   |                      |
| <u></u>            |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             | -+         |   |                      |
| <u></u>            |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             | -+         |   |                      |
|                    |          |             |                           |                         |                      |               |          |  | -                            |                             |  |                    |                |                      |   |                        |             |                 |             |            |   | +                    |
|                    |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   | _                    |
|                    |          | <u> </u>    |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             | -+         |   |                      |
|                    |          |             |                           | 1                       |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   | +                    |
|                    |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            | _ | +                    |
|                    |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             |                 |             |            |   | _                    |
| • <del>••</del> •• |          |             |                           |                         |                      |               |          |  |                              |                             |  |                    |                |                      |   |                        |             | _               |             |            |   |                      |
| Date;              | Time:    | Relinquishe | ed by:                    | Received by:            | <u> </u>             | Date          | Time     | Ren  | harks                        | <u></u>                     |  |                    |                |                      |   |                        |             |                 |             |            |   |                      |
| 29/2013            | 1150     | Ju          | 1 Bloger                  | Muntus                  | ibeles_              | 7/29/2013     | 1(50     |  |                              |                             |  |                    | LĪ             |                      |   |                        | 01          | <u></u>         |             |            |   |                      |
| Date:              | Time:    | Relinquishe | ed by: /                  | Received by:            | ١                    | Date          | Time     |  |                              |                             |  |                    |                |                      |   | VH                     |             |                 |             |            |   |                      |
| 29/13              | 1750     | 1/ m        | the Walles                |                         | 012                  | 30/13         | 1001     |  |                              |                             | <  | CON                | #Ae            | 7:                   | Je  | FF                     | F           | AU              | <u> </u>    |            |   |                      |

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If necessary, samples submitted to Hall Environmental may be subcontracted to other accedited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

# Sample Log-In Check List

| Client Name: BLAGG  | Work Order Number:               | 1307        | )65          |  | RcptNo:  | 1                    |
|---|----------------------------------|-------------|--------------|--|--|----------------------|
| Received by/date: AG<br>Logged By: Lindsay Mangin   | 07/30/3<br>7/30/2013 10:01:00 AM |             |              | Jiroby Hopp  |  |                      |
| Completed By: Lindsay Mangin  | 7/30/2013 3:05:07 PM             |             |              | freeder Hopp   |  |                      |
| Reviewed By: 70   | 07/31/13                         |             |              |  |  |                      |
| Chain of Custody  | · /                              |             |              |  |  |                      |
| 1. Custody seals intact on sample bottles?  |                                  | Yes         | •            | No   | Not Present 🗸  |                      |
| 2. Is Chain of Custody complete?  |                                  | Yes         |              | No   | Not Present  |                      |
| 3. How was the sample delivered?  |                                  | <u>Cour</u> | er           |  |  |                      |
| Log In  |                                  |             |              |  |  |                      |
| 4. Was an attempt made to cool the sample   | es?                              | Yes         |              | No   | NA   |                      |
| 5. Were all samples received at a temperat  | ure of >0° C to 6.0°C            | Yes         |              | No   | NA   |                      |
| 6. Sample(s) in proper container(s)?  |                                  | Yes         | <b>.</b>     | No   |  |                      |
| 7. Sufficient sample volume for indicated te  | st(s)?                           | Yes         |              | No   |  |                      |
| 8. Are samples (except VOA and ONG) pro   | perly preserved?                 | Yes         | ₹.           | No   |  |                      |
| 9. Was preservative added to bottles?   |                                  | Yes         | :            | No 🖌   | NA   |                      |
| 10.VOA vials have zero headspace?   |                                  | Yes         |              | No   | No VOA Vials 🗸   |                      |
| 11. Were any sample containers received br  | oken?                            | Yes         |              | , No 🗸   | # of preserved   |                      |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       |                                  | Yes         | ✔.           | No (   | bottles checked<br>for pH:<br>(<2 o  | or >12 unless noted) |
| 13. Are matrices correctly identified on Chair  |                                  | Yes         | <b>V</b>     | No   | Adjusted?  |                      |
| 14. Is it clear what analyses were requested?   | ?                                | Yes         | $\mathbf{V}$ | No   |  |                      |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) |                                  | Yes         | . <b>√</b> . | No   | Checked by:  |                      |
| Special Handling (if applicable)  |                                  |             |              |  |  |                      |
| 16. Was client notified of all discrepancies w  | ith this order?                  | Yes         | ÷÷           | No   | NA 🔽   |                      |
| Person Notified:  | Date:                            |             | <u></u>      | <u>YE MENDER I MENDER I KANAN MANAN KAN DI MANAN KAN B</u> A |  |                      |
| By Whom:  | Via:                             | eMa         | ull .        | Phone Fax  | In Person  |                      |
| Regarding:<br>Client Instructions:  |                                  |             |              |  | a de la company de |                      |
| 17. Additional remarks:   |                                  |             |              |  |  |                      |
|   |                                  |             |              |  |  |                      |
| 18. <u>Cooler Information</u><br>Cooler No Temp °C Condition                              | Seal intact   Seal No   5        | Seal D      | ate          | Signed By  |  |                      |

1 1.0 Good Yes

