Form C-144 July 21, 2008

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410 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.

\\\	174
/,	

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application 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 Type of action: 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: FIELDS A 007A API Number: 3004522464 OCD Permit Number: \_\_\_ U/L or Otr/Otr E Section 34.0 Township 32.0N Range 11W County: San Juan County Center of Proposed Design: Latitude 36.944458 Longitude <u>-107.982153</u> NAD: □1927 **×** 1983 Surface Owner: X Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F or G of 19.15.17.11 NMAC RCVD MAR 12'14 Temporary: Drilling Workover OIL CONS. DIV. Permanent Emergency Cavitation P&A DIST. 3 Lined Unlined Liner type: Thickness \_\_\_\_\_mil LLDPE HDPE PVC Other \_\_\_\_\_ String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W 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 ☐ 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 \_\_\_ ■ Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: A bbl Type of fluid: Produced Water Volume: 95.0 Tank Construction material: Steel ☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only 🗷 Other SINGLE WALLED DOUBLE BOTTOMED SIDE WALLS NOT VISIBLE Liner type: Thickness \_\_\_ \_\_mil 🔲 HDPE 🔲 PVC 🔲 Other \_ Alternative Method:

Form C-144

Oil Conservation Division

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

Page Lof 5

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 4' Hogwire with single barbed wire						
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						
9.   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:   X   Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.   C   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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approach office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.					
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					
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						
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 19.15.17.11 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: or Permit Number:
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:
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)
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
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 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan
Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan ☐ Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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: X Waste Excavation and Removal
<ul> <li>☐ Waste Removal (Closed-loop systems only)</li> <li>☐ On-site Closure Method (Only for temporary pits and closed-loop systems)</li> </ul>
☐ In-place Burial ☐ On-site Trench Burial
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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)
<ul> <li>         X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC     </li> <li>         X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC     </li> </ul>
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

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.1) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attach facilities are required.						
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 occur on or in areas that will not be used for full Yes (If yes, please provide the information below) No						
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 19.15.17.13  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	13 NMAC					
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of accepta provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	riate district 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; Data 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; Data obtained from nearby wells	Yes No NA					
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	r playa Yes No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	n. Yes No					
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; Visual inspection (certification) of the proposed site						
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						
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site						
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division						
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geologi Society; Topographic map	ical Yes No					
Within a 100-year floodplain FEMA map	☐ Yes ☐ No					
FEMA map						

19. 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.							
Name (Print): Deffrey Peace Title: Field Environmental Advisor							
Signature: Date: 6/14/2010							
e-mail address: Peace.Jeffrey@bp.com  Telephone: 505-326-9479							
20.  OCD Approval: Permit Application (including closure plants) PCD Conditions (see attachment)							
() cHOVally 4/10/2014 //							
Cardianes In Car							
Title: OCD Permit Number:							
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 9/6/2012. 5×4/10/2014							
22.							
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.							
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, drilling fluids and drill cuttings were disposed. Use attachment if more than							
two facilities were utilized.  Disposal Facility Name:							
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Permit Number: 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 operations?							
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:							
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation							
Re-vegetation Application Rates and Seeding Technique							
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check							
mark in the box, that the documents are attached.							
☐ 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 Site Reclamation (Photo Documentation)							
On-site Closure Location: Latitude 36.94458 Longitude 107, 982153 NAD: 1927 2 1983							
25.							
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and							
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.							
Name (Print): Jeff leace Title: Field Environmental Advisor							
Signature: Jeff Peace Date: February 27,2014							
e-mail address: peace reference op com Telephone: (505) 326-9479							

#### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

#### Fields A 7A API No. 3004522464 Unit Letter E, Section 34, T32N, 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 grab sample	(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	0.39
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 immediately under the BGT showed no evidence of historical impacts. The sample results shown in the above table were from soil immediately below the BGT,

# but a sample taken while excavating discolored soil exceeded the TPH limit. 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.
  - Soil beneath the BGT indicated a historical release had occurred. These impacts were addressed under the spill and release guidelines. A C-141 for the remediation of those impacts will be submitted separately.
- 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 covered by the LPT.

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. 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. 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. 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

Revised August 8, 2011

Form C-141

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.

Release Notification and Corrective Action												
					<b>OPERA</b>	PERATOR   Initial Report     Final					Final Report	
<u></u>					Contact: Jeff Peace							
						No.: 505-326-94						
Facility Na	me: Fields	A 7A				Facility Typ	e: Natural gas v	well				
Surface Ow	ner: Feder	ral		Mineral (	)wner: l	Federal			API No	. 3004522	464	
				LOCA	ATION	N OF REI	LEASE					
Unit Letter E	Section 34	Township 32N	Range 11W	Feet from the 1,620	North/ North	South Line	Feet from the 1,100	East/\ West	West Line	County: S	an Juar	n
		Lati	tude36	5.944458		Longitude	107.982513	·		<del></del>		
			<u> </u>	NAT	URE	OF REL			· · · · · · · · · · · · · · · · · · ·			
Type of Rele			0.5.1.1.				Release: unknow			Recovered: 1		
Source of Re	elease: belo	w grade tank –	95 bbl			Date and F unknown	lour of Occurrence	ce:	Date and 2:15 PM	Hour of Dis	covery	: 9/6/2012;
Was Immedi	ate Notice		Yes [	No 🛛 Not R	equired	If YES, To	Whom?		2.131111			
By Whom?		<del></del>				Date and I-	lour			<del></del>		
Was a Water	course Rea		Yes 🗵	] No		If YES, Volume Impacting the Watercourse.						
If a Watercon	urse was Im	pacted, Descri	ibe Fully.'	k								
	Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil showed evidence of historical impact and soil analysis resulted in TPH above the applicable standards. Analysis results are attached.											
	Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. Impacted soil was excavated to sandstone bedrock. The area was backfilled and compacted and is covered by the LPT. C-141 for remedial excavation will be submitted separately.											
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptance adequately OCD accep	e is true and comp ad/or file certain rate of a C-141 report investigate and ratance of a C-141	elease no ort by the emediate	otifications are NMOCD made contaminati	nd perform correct arked as "Final Roon that pose a thre	tive act eport" d eat to gi	ions for rele loes not reli round water	eases which eve the open s, surface wa	may er rator of iter, hu	ndanger Fliability man health
Signature: Polit Resce					OIL CONSERVATION DIVISION							
Printed Name	e: Jeff Peac	e				Approved by Environmental Specialist:						
Title: Field E						Approval Dat	e:		Expiration Date:			
E-mail Addre	ess: peace.j	effrey@bp.cor	n		(	Conditions of	Approval:			Attached		
Date: March	6, 2014		Phone: 5	05-326-9479								

<sup>\*</sup> Attach Additional Sheets If Necessary

CLIENT: BP	BLAGG EN P.O. BOX 87, BI	API#: 3004522464	4					
	(50	5) 632-1199		TANK ID (if applicble):				
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / C	OTHER:	PAGE #: <b>1</b> of	2_			
SITE INFORMATION		A#7A		DATE STARTED: 09/06/12	2			
QUAD/UNIT: E SEC: 34 TWP:	32N RNG: 11W PM:	NM CNTY: SJ	st: NM	DATE FINISHED:				
1/4 -1/4/FOOTAGE: 1620'N / 1100' LEASE #: NM010989	PROD. FORMATION: MV/PC CC	(PE: FEDERAL) STATE / ELKHORI (NTRACTOR: MBF - B. :		ENVIRONMENTAL SPECIALIST(S): NV				
REFERENCE POINT			1418 X 107.9820	06 GLELEV.: 607	 77'			
1) 95 BBL BGT (SW/DB)	<del></del>	944458 X 107.982153		ARING FROM WH.: 120', N17.5				
2)	GPS COORD.;		DISTANCE/BE	ARING FROM W.H.:				
3)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.;				
4)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:				
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # O	R LAB USED: HAL	 L	REAL	VM DING			
1) SAMPLE ID: 1 @ 5' (95)	SAMPLE DATE:09/06/12	SAMPLE TIME: 1415	LAB ANALYSIS:418.1,	7.1	pm) <b>7.7</b> _			
2) SAMPLE ID:1 @ 15' (95)	SAMPLE DATE: 09/06/12				50			
3) SAMPLE ID:	SAMPLE DATE: <b>09/06/12</b>	SAMPLE TIME: 1510	LAB ANALYSIS: 801	5, 8021, 300.0 (Chlor.) 9	0.0			
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:					
SOIL DESCRIPTION:  SOIL TYPE: SAND / SILTY SAND / SILTY CLAY / GRAVEL / OTHER BEDROCK - SANDSTONE @  SOIL COLOR: VERY PALE ORANGE TO BLACK  COHESION (ALL OTHERS): NON COHESIVE) SLIGHTLY COHESIVE / C								
SITE SKETCH	(95) PBGTL T.B. ~ 5' B.G.	210 BBL	N OVM	CALIB. READ. = 52.2 ppm RF = 100 ppm 11:15 ampm DATE 9/6/12	2			
	REVIOUS M POSITION	PROD. TANK  TH1	Pi Pi Pi O Tar	ppm = parts per million				
	TO \	v a=		BGT Sidewalls Visible: Y / N  BGT Sidewalls Visible: Y / N				
NOTES, DOT - DELOIM/ODADE TANI/, E.D EVOA/AT	W.H. V	X - S.P.		BGT Sidewalls Visible: Y / N				
APPLICABLE OR NOT AVAILABLE, SW - SINGL	ON DEPRESSION; B.G. = BELOW GRADE; B = BE LOW-GRADE TANK LOCATION; SPD = SAMPLE P LE WALL; DW - DOUBLE WALL; SB - SINGLE BOT	DINT DESIGNATION; R.W. = RETAINING "OM; DB - DOUBLE BOTTOM.	WALL; NA - NOT N	lagnetic declination: 10° E				
TRAVEL NOTES: CALLOUT:		ONSITE: <u>09/05</u>	5/12, 09/06/12		_			

#### **Analytical Report**

#### Lab Order 1209274

Date Reported: 9/14/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Project:

Lab ID:

FIELDS A #7A

1209274-001

**Client Sample ID:** 1 @ 5' (95)

Collection Date: 9/6/2012 2:15:00 PM

Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL (	<b>RL</b> Qual Units		DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG			-		Analyst: <b>JMP</b>	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/10/2012 10:33:50 AM
Surr: DNOP	114	77.6-140		%REC	1	9/10/2012 10:33:50 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	12	5.0		mg/Kg	1	9/10/2012 12:35:53 PM
Surr: BFB	141	84-116	s	%REC	1	9/10/2012 12:35:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	9/10/2012 12:35:53 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2012 12:35:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2012 12:35:53 PM
Xylenes, Total	0.39	0.10		mg/Kg	1 .	9/10/2012 12:35:53 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	9/10/2012 12:35:53 PM
EPA METHOD 300.0: ANIONS					٠	Analyst: <b>SRM</b>
Chloride	ND	30		mg/Kg	20	9/10/2012 12:19:21 PM
EPA METHOD 418.1: TPH						Analyst: <b>JMP</b>
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	9/10/2012 9:00:00 AM

Matrix: SOIL

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Reporting Detection Limit

#### **Analytical Report**

Lab Order 1209274

Date Reported: 9/14/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

**Client Sample ID:** 1 @ 15' (95)

Project:

FIELDS A #7A

Collection Date: 9/6/2012 2:30:00 PM

Lab ID: 1209274-002

Matrix: SOIL

Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	31	9.8		mg/Kg	1	9/10/2012 10:55:37 AM
Surr: DNOP	117	77.6-140		%REC	1	9/10/2012 10:55:37 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	170	10		mg/Kg	2	9/10/2012 1:04:39 PM
Surr: BFB	614	84-116	S	%REC	2	9/10/2012 1:04:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	9/10/2012 1:04:39 PM
Toluene	ND	0.10		mg/Kg	2	9/10/2012 1:04:39 PM
Ethylbenzene	ND	0.10		mg/Kg	2	9/10/2012 1:04:39 PM
Xylenes, Total	1.2	0.20		mg/Kg	2	9/10/2012 1:04:39 PM
Surr: 4-Bromofluorobenzene	130	80-120	S	%REC	2	9/10/2012 1:04:39 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	. 30		mg/Kg	20	9/10/2012 12:31:45 PM

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

#### **Analytical Report**

#### Lab Order 1209274

Date Reported: 9/14/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Project:

Lab ID:

FIELDS A #7A

1209274-003

-003 Matrix: SOIL

Client Sample ID: TH1 @ 1.5'

**Collection Date:** 9/6/2012 3:10:00 PM

Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/10/2012 11:17:23 AM
Surr: DNOP	118	77.6-140	%REC	1	9/10/2012 11:17:23 AM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	5.4	5.0	mg/Kg	1	9/10/2012 11:13:09 PM
Surr: BFB	111	84-116	%REC	1	9/10/2012 11:13:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	9/10/2012 1:33:23 PM
Toluene	ND	0.050	mg/Kg	1	9/10/2012 1:33:23 PM
Ethylbenzene	0.059	0.050	mg/Kg	1	9/10/2012 1:33:23 PM
Xylenes, Total	0.57	0.10	mg/Kg	1	9/10/2012 1:33:23 PM
Surr: 4-Bromofluorobenzene	113	80-120	%REC	1	9/10/2012 1:33:23 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	, ND	30	mg/Kg	20	9/10/2012 12:44:10 PM

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID MB-3668

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 3668

**PQL** 

RunNo: 5415

Prep Date: 9/10/2012

Analysis Date: 9/10/2012

SeqNo: 154533

Units: mg/Kg

%RPD

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

**RPDLimit** Qual

Chloride

ND 1.5

Sample ID LCS-3668

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 3668

RunNo: 5415

Prep Date: 9/10/2012 Analysis Date: 9/10/2012

SeqNo: 154534

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

%RPD

**RPDLimit** Qual

Chloride

HighLimit

110

15.00 96.2

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

В

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 4 of 9

Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID	MB-3671

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 3671

RunNo: 5398

Prep Date: 9/10/2012

**PQL** 

20

Analysis Date: 9/10/2012

SeqNo: 153937

Units: mg/Kg

HighLimit

SPK value SPK Ref Val %REC LowLimit

**RPDLimit** Qual

Petroleum Hydrocarbons, TR

ND

Sample ID LCS-3671

SampType: LCS

TestCode: EPA Method 418.1: TPH

Batch ID: 3671

RunNo: 5398

Analyte

Prep Date: 9/10/2012

Analysis Date: 9/10/2012

SeqNo: 153938

Units: mg/Kg

**RPDLimit** Qual

Petroleum Hydrocarbons, TR

Sample ID LCSD-3671

Petroleum Hydrocarbons, TR

Client ID: LCSS

Result 110

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

%RPD

Qual

**PQL** 20

Batch ID: 3671

PQL

20

100.0

SPK value SPK Ref Val

100.0

108

120

SampType: LCSD

RunNo: 5398

%REC

102

TestCode: EPA Method 418.1: TPH

80

LowLimit

120

Analyte

Client ID: LCSS02 Prep Date: 9/10/2012

Analysis Date: 9/10/2012 Result

100

0

SeqNo: 153939

Units: mg/Kg HighLimit

%RPD

5.60

**RPDLimit** 

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits RPD outside accepted recovery limits

В

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Page 5 of 9

Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID MB-3669

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID:

**PBS** 

Batch ID: 3669

PQL

10

RunNo: 5402

Prep Date: 9/10/2012 Analysis Date: 9/10/2012

SeqNo: 154019

Units: mg/Kg

Analyte

Result

LowLimit

ND

SPK value SPK Ref Val %REC

HighLimit

**RPDLimit** Qual

Diesel Range Organics (DRO)

Result

77.6

Surr: DNOP

11

10.00

SPK value SPK Ref Val

111

140

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

Sample ID LCS-3669 Client ID:

LCSS

9/10/2012

SampType: LCS Batch ID: 3669

RunNo: 5402

Analyte Diesel Range Organics (DRO) Analysis Date: 9/10/2012

SeqNo: 154022

%REC

71.9

Units: mg/Kg

LowLimit HighLimit 52.6 130

36 10 50.00 5.000

%RPD **RPDLimit** 

Surr: DNOP

Prep Date:

4.4

**PQL** 

88.3

77.6

140

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

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

Page 6 of 9

RLReporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID MB-3703

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range

79.5

Client ID: PBW

Batch ID: 3703

RunNo: 5423

SeqNo: 154966

Units: %REC

Prep Date: 9/11/2012 Analysis Date: 9/11/2012

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit** 

Surr: DNOP

HighLimit

1.2

1.000

118

166

Sample ID LCS-3703

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range

Client ID: LCSW

Batch ID: 3703

RunNo: 5423

Prep Date: 9/11/2012

Analysis Date: 9/11/2012

**PQL** 

SeqNo: 155418

Units: %REC

166

%RPD

Analyte Surr: DNOP

SPK value SPK Ref Val

%REC LowLimit 97.1

HighLimit

**RPDLimit** 

Qual

Qual

Sample ID LCSD-3703 Client ID: LCS\$02

Result

0.42

0.49

SampType: LCSD Batch ID: 3703

TestCode: EPA Method 8015B: Diesel Range

RunNo: 5423

79.5

Units: %REC

Analyte

Prep Date: 9/11/2012

Analysis Date: 9/11/2012

0.5000

SeqNo: 155419

%REC LowLimit HighLimit

%RPD

**RPDLimit** 

Surr: DNOP

0.5000

SPK value SPK Ref Val

84.4

79.5

166

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Reporting Detection Limit

RL

Page 7 of 9

RPD outside accepted recovery limits R

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID	MB-3657
-----------	---------

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS

Batch ID: 3657

RunNo: 5409

Units: mg/Kg

Prep Date: 9/7/2012

Analysis Date: 9/10/2012

SeqNo: 154770

Analyte

Result **PQL** 5.0

LowLimit

84

**RPDLimit** Qual

Gasoline Range Organics (GRO)

ND

SPK value SPK Ref Val %REC

102

HighLimit

1000

1000

116

Surr: BFB

TestCode: EPA Method 8015B: Gasoline Range

%RPD

Sample ID LCS-3657 Client ID: LCSS

SampType: LCS Batch ID: 3657

RunNo: 5409

Prep Date: 9/7/2012

Analysis Date: 9/10/2012

PQL

5.0

SeqNo: 154771

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO) Result 26

25.00

SPK value SPK Ref Val

%REC 103

74

%RPD **RPDLimit** 

Qual

1100

1000

106

117

Surr: BFB

0

84

LowLimit

116

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е Analyte detected below quantitation limits

RPD outside accepted recovery limits

B

Η

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

RLReporting Detection Limit Page 8 of 9

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1209274

14-Sep-12

Client:

Blagg Engineering

Project:

FIELDS A #7A

Sample ID MB-3657	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles											
Client ID: PBS	F														
Prep Date: 9/7/2012	Analysis E	Date: 9/	10/2012	SeqNo: 154791			Units: mg/K								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	ND	0.050													
Toluene	ND	0.050													
Ethylbenzene	ND	0.050													
Xylenes, Total	ND	0.10													
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120								

Sample ID LCS-3657	Samp	Гуре: <b>LC</b>	s	TestCode: EPA Method 8021B: Volatiles													
Client ID: LCSS	Batch ID: <b>3657</b> RunNo: <b>5409</b>																
Prep Date: 9/7/2012	Analysis [	Date: <b>9/</b>	10/2012	SeqNo: <b>154792</b>			Units: mg/k	(g									
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit		HighLimit	%RPD	RPDLimit	Qual											
Benzene	0.94	0.050	1.000	0	94.4	76.3	117										
Toluene	0.97	0.050	1.000	0	96.9	80	120										
Ethylbenzene	1.0	0.050	1.000	0	101	77	116										
Xylenes, Total	nes, Total 3.1 0.10 3.000 0 102 76.7																
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120										

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1209274 95 09/08/12 Received by/date: anne Sham Logged By: 9/8/2012 11:15:00 AM Anne Thorne 9/10/2012 an Il Completed By: Anne Thorne Reviewed By: Chain of Custody 1. Were seals intact? Yes 🗌 No 🔲 Not Present Yes 🗸 No 🗌 2. Is Chain of Custody complete? Not Present 3 How was the sample delivered? Courier Log In Yes 🗹 No 🗌 NA 🗌 4 Coolers are present? (see 19. for cooler specific information) Yes 🗸 No 🗌 5 Was an attempt made to cool the samples? NA 🗌 Yes 🗹 No 🗌 NA 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7 Sample(s) in proper container(s)? Yes 🗸 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗌 9 Are samples (except VOA and ONG) properly preserved? NA 🗌 10 Was preservative added to bottles? Yes 🗌 No 🗹 Yes 🗌 No 🔲 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes 🗌 No 🗹 12. Were any sample containers received broken? # of preserved 13 Does paperwork match bottle labels? Yes 🗸 No 🗀 bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗌 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? Yes 🗸 No 🔲 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? Yes 🔽 No 🗌 (If no, notify customer for authorization.) Checked by Special Handling (if applicable) Yes 🗌 No 🗌 17 Was client notified of all discrepancies with this order? NA 🗹 Person Notified: Date By Whom: Via: ☐ eMail Phone Fax ☐ In Person Regarding: Client Instructions: 18 Additional remarks: 19. Cooler Information Temp ºC Seal Intact | Seal No | Seal Date Cooler No Condition Signed By Good

Chain-of-Custody Record			COMPLETE BY				HALL ENVIRONMENTAL															
Client: BLAGG ENGR. / BP AMERICA			☐ Standard	☑ Rush _	09/10/2012	 											RA					
				Project Name:					• •			w.ha									•	
Mailing Ad	dress:	P.O. BOX	K 87	1	4901 Hawkins NE - Albuquerque, NM 87109																	
	<del></del> -		FIELD, NM 87413	Project #:					Tel. 505-345-3975 Fax 505-345-4107													
Phone #:	4			1						1.01		9 9 9			10 mile			4 16	1.34			
email or Fax#:			Project Manag	er:			- 1 <sup>2</sup> - 1						4.4							1		
QA/QC Package:  Standard  Level 4 (Full Validation)			NELSON VELEZ				only)	(Gas/Diesel)					NO2, PO4, SO4)	PCB's					۵	ונו		
Accreditat	Accreditation:			Sampler:	NELSON VE	LEZ MY	(8021B)	+ TPH (Gas	(Gas		İ		- 1	107	82 P(					E .	1	
□ NELAP	)	□ Other		On ice: , ≿ Yes □ No					15B	418.1)	7.1	E		3,	/ 8082		اد	_		9	<u>۽</u> ا	
□ EDD (T	уре)				erature: え <i>み</i> じ	Z.	[	+ MTBE +	d 80	d 41	d 50	7 2	sie	ΣŽ	des	اء	Š	0.0	2	ַבַּיִּדְּ בַּיִּבְּיִּדְ	3 :	
Date	Time	Matrix	Sample Request ID	Type and # Type					TPH Method 8015B	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	umes deser	Grab sample 5 of composite sample		
9/6/12	1415	SOIL	1 @ 5' (95)	4 oz1	Cool	-00l	٧	BTEX	٧	٧								٧	1		I	
9/6/12	1430	SOIL	1 @ 15' (95)	1912 of 14	Cool	-002	٧		٧									٧	\	<u> </u>	+	
9/6/12	1510	SOIL	TH1 @ 1.5'	MEON. Est	Cool	-000	٧		٧									٧	v			
							_								_				+	$\dotplus$	+	
											_								+		$\dagger$	
																			Ţ		I	
		· ·		<u> </u>		·						-	_			$\dashv$	-	$\dashv$	_	+	+	
		-										$\dashv$			$\dashv$		$\dashv$		+	+	+	
Date: 9/7/17	Time: 9146	Relinquish	larly	Received by: Date Time Christian Deven 9/7/12 940					Remarks: TPH (8015B) - GRO & DRO ONLY.  BILL DIRECTLY TO BP:  Jeff Peace, 200 Energy Court, Farmington, NM 87401													
Date:	Time:	Relinquish	atte Ucultus	Received by:	accordited laboratorie	Date Time	Work Order: <u>N1595380</u> Paykey: <u>755</u>								Payk	ey:	_	7552				



