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 Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

Proposed Alternative Method Permit or Closure Plan Application
Oll Cone
Permit of a pit or proposed alternative method
45-∂6398 ☐ Closure of a pit, below-grade tank, or proposed alternative method ☐ MAR 19 2015 ☐ Modification to an existing permit/or registration
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request  Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1.  On the DD America Decision Comments of the
Operator: BP America Production Company OGRID #:778
Address:200 Energy Court, Farmington, NM 87401
Facility or well name:Gallegos Canyon Unit 157E
API Number:3004526398OCD Permit Number:
U/L or Qtr/Qtr
Center of Proposed Design: Latitude36.62078 Longitude108.19508 NAD: ☐1927 ☒ 1983
Surface Owner:   Federal   State   Private   Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent       ☐ Emergency       ☐ Cavitation       ☐ P&A       ☐ Multi-Well Fluid Management       Low Chloride Drilling Fluid       ☐ yes       ☐ no         ☐ Lined       ☐ Unlined       Liner type: Thickness       mil       ☐ LLDPE       ☐ PVC       ☐ Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank A
Volume:95.0bbl Type of fluid:Produced water
Tank Construction material:Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other _Single walled/single bottomed; side walls not visible
Liner type: Thicknessmil
4.  Alternative Method:

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

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

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
application Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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. and 19.15.17.13 NMAC	O NMAC 15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.	cuments are
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	0.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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 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  Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
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 Multi-well Flank 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	luid Management Pit
Alternative Closure Method    Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.    Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC   Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)   Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC   Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attached to the
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  Ground water is between 25-50 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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	<ul><li> NA</li><li> Yes  No</li><li> NA</li></ul>
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plans to the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
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 believed.	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 4/14/  Title: CD Permit Number:	2015
19.  Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting  The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 11/16/2012	
20.	
Closure Method:  ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-location of the Closure Method)	pop systems only)
☐ If different from approved plan, please explain.	

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	
Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Signature: St Poace	Date:March 17, 2015
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479

#### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

# Gallegos Canyon Unit 157E API No. 3004526398 Unit Letter E, Section 35, T28N, R13W

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 BGT notice requirements at that time.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
  - No notice was made due to misunderstanding of the BGT notice requirements at that time.
- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
  - c. Basin Disposal, Permit NM-01-0005 (Liquids)

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

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

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

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

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	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	147
TPH	US EPA Method SW-846 418.1	100	1,700
Chlorides	US EPA Method 300.0 or 4500B	250 or background	410

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 above the stated limits. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. C-141 is attached.
- 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 a release occurred. The release will be addressed

through the spill and release guidelines.

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 well area.

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

The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

BP will seed the area as part of final reclamation 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
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1000 Rio Brazos Road, Aztec, NM 87410
District IV

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action NMOCD considers this **OPERATOR** Initial Report Name of Company: BP Contact: Jeff Peace addressed Address: 200 Energy Court, Farmington, NM 87401 Telephone No.: 505-326-9479 Facility Name: Gallegos Canyon Unit 157E Facility Type: Natural gas well Surface Owner: Tribal Mineral Owner: Federal API No. 3004526398 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County: San Juan 28N 13W E 35 1.850 North 810 West Latitude 36.62078 Longitude 108.19508 NATURE OF RELEASE Type of Release: oil/condensate Volume of Release: unknown Volume Recovered: none Source of Release: below grade tank - 95 bbl Date and Hour of Occurrence: Date and Hour of Discovery: November unknown 5, 2012; 3:06 PM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride above standards. TPH was 1,700 ppm by Method 418.1 and was 2,240 ppm by Method 8015B. BTEX was 147 ppm by Method 8021B and chloride was 410 ppm by Method 300. Analyses results are attached. Describe Area Affected and Cleanup Action Taken.\* BGT was removed and the area underneath the BGT was sampled. Sampling results indicate a release occurred. The release will be addressed through the spill and release guidelines. The area under the BGT was backfilled and compacted and is still in the active well area. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Jeff Peace Expiration Date: Title: Field Environmental Coordinator Approval Date: Conditions of Approval: E-mail Address: peace.jeffrey@bp.com Attached

Phone: 505-326-9479

Date: March 17, 2015

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

CLIENT: BP	P.O. BOX 87, BL	IGINEERING, INC. OOMFIELD, NM 874 5) 632-1199	413	API #:3004526398 TANK ID (if applicble):A
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / OTHER:		PAGE#: 1 of 1
SITE INFORMATION QUAD/UNIT: <b>E</b> SEC: <b>35</b> TWP: 1/4 - 1/4/FOOTAGE: <b>1,850'N / 810</b> LEASE #: <b>NM078391C</b>	28N RNG: 13W PM:	NM CNTY: SJ ST:	INDIAN	DATE STARTED: 11/05/12  DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): JCB
REFERENCE POINT  1) 95 BGT (SW/SB)  2) 3) 4) 4)	GPS COORD.: 36.  GPS COORD.:  GPS COORD.:		DISTANCE/BE/ DISTANCE/BE/	ARING FROM W.H.:  ARING FROM W.H.:  ARING FROM W.H.:  ARING FROM W.H.:
SAMPLING DATA:  1) SAMPLE ID: GRAB @ 6'  2) SAMPLE ID:  3) SAMPLE ID:  4) SAMPLE ID:	SAMPLE DATE:  SAMPLE DATE:	SAMPLETIME: 1506 LAB ANALY SAMPLETIME: LAB ANALY LAB ANALY	YSIS:	
SOIL DESCRIPTION  SOIL COLOR: MOD  COHESION (ALL OTHERS) NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST / MOIST / M SAMPLE TYPE: GRAB COMPOSITE - # DISCOLORATION/STAINING OBSERVED  ANY AREAS DISPLAYING WETNESS: YES NO APPARENT EVIDENCE OF A RELEASE C ADDITIONAL COMMENTS: TANK SIZE	ERATE BROWN  COHESIVE / COHESIVE / HIGHLY COHESIVE  OSE / FIRM / DENSE / VERY DENSE  ET / SATURATED / SUPER SATURATED  OF PTS. NA  YES / NO EXPLANATION - GRA  EXPLANATION -  BSERVED AND/OR OCCURRED : YES	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES	IGHTLY PLASTIC / ( SILTS): SOFT	HERCOHESNE / MEDIUM PLASTIC / HIGHLY PLASTIC FIRM / STIFF / VERY STIFF / HARD ANATION - STRONG PHYSICALLY
SOIL IMPACT DIMENSION ESTIMATION:	NA ft. X NA  EAREST WATER SOURCE: >1,000'			TIMATION (Cubic Yards) : NA DI TPH CLOSURE STD: 100 ppm
	SQUARE RGLASS BGT  18' 6'	⊕ W.H. X - S.	N OWM TIME  W Price Price Price A  P.D.	MISCELL. NOTES  /O: N15126471  O#:  K: ZEVH01BGT2  J#: Z2-00690-C  ermit date(s): 06/08/10  CD Appr. date(s): 09/17/12  OVM = Organic Vapor Meter  ppm = parts per million  PDT Office of Mark Side (s): 02/17/12
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	OW DEPRESSION; B.G. = BELOW GRADE; B = BEL OW-GRADE TANK LOCATION; SPD = SAMPLE PO E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTO	INT DESIGNATION; R.W. = RETAINING WALL; NA		Magnetic declination: 10° E

#### **Analytical Report**

Lab Order 1211361

Date Reported: 11/16/2012

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: 95 BGT Grab @ 6'

Project: GCU 157E

Collection Date: 11/5/2012 3:06:00 PM

Lab ID: 1211361-001 Matrix: SOIL

Received Date: 11/8/2012 10:00:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	640	10		mg/Kg	1	11/13/2012 1:38:40 PM
Surr: DNOP	101	77.6-140		%REC	1	11/13/2012 1:38:40 PM
EPA METHOD 8015B: GASOLINE RANG	GE					Analyst: NSB
Gasoline Range Organics (GRO)	1600	93		mg/Kg	20	11/12/2012 2:34:12 PM
Surr: BFB	454	84-116	S	%REC	20	11/12/2012 2:34:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.93		mg/Kg	20	11/12/2012 2:34:12 PM
Toluene	24	0.93		mg/Kg	20	11/12/2012 2:34:12 PM
Ethylbenzene	13	0.93		mg/Kg	20	11/12/2012 2:34:12 PM
Xylenes, Total	110	1.9		mg/Kg	20	11/12/2012 2:34:12 PM
Surr: 4-Bromofluorobenzene	130	80-120	S	%REC	20	11/12/2012 2:34:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	410	30		mg/Kg	20	11/9/2012 11:49:12 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	1700	40		mg/Kg	2	11/14/2012

#### Qualifiers:

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

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

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1211361

16-Nov-12

Client:

Blagg Engineering

Project:

GCU 157E

Sample ID 1211161-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID:

BatchQC

Batch ID: 4759

RunNo: 6819

Prep Date: 11/9/2012

Analysis Date: 11/9/2012

15

SeqNo: 198019

Units: mg/Kg

**RPDLimit** Qual

Analyte

PQL SPK value SPK Ref Val

15.00

%REC 3.621 84.9

LowLimit HighLimit 64.4 117

Chloride

Sample ID 1211161-001AMSD

BatchQC

SampType: MSD Batch ID: 4759

**PQL** 

RunNo: 6819

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

SeqNo: 198020

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte

Client ID:

Result

Result

16

SPK value SPK Ref Val %REC

84.4

64.4

LowLimit

HighLimit

0.404

Chloride

16

15 15.00 3.621

%RPD

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank В

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 2 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1211361 16-Nov-12

Client:

Blagg Engineering

Project:

Analyte

Client ID:

GCU 157E

Sample ID LCS-4824

SampType: LCS

TestCode: EPA Method 418.1: TPH

LowLimit

TestCode: EPA Method 418.1: TPH

Client ID:

LCSS

Batch ID: 4824

RunNo: 6899

Prep Date: 11/14/2012 Analysis Date: 11/14/2012

%REC

Result PQL

110

SPK value SPK Ref Val

SeqNo: 199615

Units: mg/Kg HighLimit

%RPD

**RPDLimit** Qual

Qual

Petroleum Hydrocarbons, TR

Sample ID LCSD-4824

SampType: LCSD Batch ID: 4824

RunNo: 6899

Prep Date: 11/14/2012

LCSS02

Analysis Date: 11/14/2012

SeqNo: 199616

Units: mg/Kg

Analyte

Result

PQL SPK value SPK Ref Val %REC

LowLimit

HighLimit

%RPD **RPDLimit** 

100.0

100.0

80

20

Petroleum Hydrocarbons, TR

100

104

20

120

2.50

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 3 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211361

16-Nov-12

Client:

Blagg Engineering

Project:

GCU 157E

Project:	GCU 157	E									
Sample ID	MB-4780	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	PBS	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis D	ate: 11	1/13/2012	5	SeqNo: 1	98229	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP		8.7		10.00		86.5	77.6	140			
Sample ID	LCS-4780	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	LCSS	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis Da	ate: 11	1/13/2012	5	SeqNo: 1	98230	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	50	10	50.00	0	99.3	52.6	130			
Surr: DNOP		4.5		5.000		89.3	77.6	140			
Sample ID	1211427-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis D	ate: 11	1/13/2012	S	SeqNo: 1	98456	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	53	10	50.86	0	104	57.2	146			
Surr: DNOP		4.1		5.086		80.5	77.6	140			
Sample ID	1211427-001AMSI	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	BatchQC	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis D	ate: 11	1/13/2012	5	SeqNo: 1	98457	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	55	10	51.49	0	106	57.2	146	3.04	24.5	
0											

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

1000

WO#:

1211361 16-Nov-12

Client:

Blagg Engineering

Project:

Surr: BFB

GCU 157E

Sample ID MB-4761	SampType: MBLK	TestCode	EPA Method	8015B: Gasolin	e Range	
Client ID: PBS	Batch ID: 4761	RunNo	6847			
Prep Date: 11/9/2012	Analysis Date: 11/12/201	2 SeqNo	198296	Units: mg/Kg		
Analyte	Result PQL SPK va	alue SPK Ref Val %RE	C LowLimit	HighLimit %	%RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0					
Surr: BFB	950 1	000 95	.0 84	116		
Sample ID LCS-4761	SampType: LCS	TestCode	EPA Method	8015B: Gasolin	e Range	
Client ID: LCSS	Batch ID: 4761	RunNo	6847			
Prep Date: 11/9/2012	Analysis Date: 11/12/201	2 SeqNo	198297	Units: mg/Kg		
Analyte	Result PQL SPK va	alue SPK Ref Val %RE	C LowLimit	HighLimit %	%RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0 25	5.00 0 98	.3 74	117		
Surr: BFB	990 1	000 99	.3 84	116		
Sample ID 1211359-002AMS	SampType: MS	TestCode	EPA Method	8015B: Gasolin	e Range	
Client ID: BatchQC	Batch ID: 4761	RunNo	6847			
Prep Date: 11/9/2012	Analysis Date: 11/12/201	2 SeqNo	198302	Units: mg/Kg		
					/ DDD	01
Analyte	Result PQL SPK va	alue SPK Ref Val %RE	C LowLimit	HighLimit 9	%RPD RPDLimit	Qual

Sample ID 1	211359-002AMSD	SampTy	pe: MS	SD	Test	tCode: El	PA Method	8015B: Gaso	oline Rang	е	
Client ID: B	BatchQC	Batch	ID: <b>47</b>	61	R	RunNo: 6	847				
Prep Date:	11/9/2012	Analysis Da	ite: 1	1/12/2012	S	SeqNo: 1	98303	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	23	4.8	23.97	0	96.6	70	130	0.192	22.1	
Surr: BFB		1000		958.8		106	84	116	0	0	

108

84

116

956.9

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

Page 5 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1211361

16-Nov-12

Client:

Blagg Engineering

Project:	GCU 157	7E												
Sample ID	MB-4761	TestCode: EPA Method 8021B: Volatiles												
Client ID:	PBS	Bato	h ID: 47	61	F	RunNo: 6								
Prep Date:	11/9/2012	Analysis Date: 11/12/2012			5	SeqNo: 1	98437	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.050											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Bron	nofluorobenzene	1.0		1.000		101	80	120						
Sample ID	LCS-4761	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles									
Client ID:	LCSS	LCSS Batch ID: 4761					RunNo: 6847							
Prep Date:	11/9/2012	Analysis Date: 11/12/2012			S	SeqNo: 1	98438	Units: mg/k	<b>(</b> g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.95	0.050	1.000	0	95.1	76.3	117						
Toluene		0.96	0.050	1.000	0	96.5	80	120						
Ethylbenzene		0.97	0.050	1.000	0	97.2	77	116						
Xylenes, Total		2.9	0.10	3.000	0	97.1	76.7	117						
Surr: 4-Brom	nofluorobenzene	1.0		1.000		104	80	120						
Sample ID	e ID 1211359-001AMS SampType: MS				TestCode: EPA Method 8021B: Volatiles									
Client ID:	BatchQC Batch ID: 4761				F									
Prep Date:	11/9/2012	Analysis Date: 11/12/2012		1/12/2012	SeqNo: 198440			Units: mg/h	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.90	0.047	0.9434	0	95.4	67.2	113						
Toluene		0.92	0.047	0.9434	0	97.8	62.1	116						
Ethylbenzene		0.93	0.047	0.9434	0	98.7	67.9	127						
Xylenes, Total		2.8	0.094	2.830	0	99.0	60.6	134						
Surr: 4-Brom	nofluorobenzene	1.0		0.9434		109	80	120						
Sample ID	TestCode: EPA Method 8021B: Volatiles													
Client ID:	R	RunNo: 6847												
Prep Date:	11/9/2012 Analysis Date: 11/12/2012				S	SeqNo: 1	98441	Units: mg/h	(g					
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.92	0.047	0.9461	0	97.3	67.2	113	2.31	14.3				
Toluene		0.93	0.047	0.9461	0	98.3	62.1	116	0.779	15.9				
Ethylbenzene		0.95	0.047	0.9461	0	100	67.9	127	1.94	14.4				
Xylenes, Total		2.8	0.095	2.838	0	100	60.6	134	1.52	12.6				

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

1.0

0.9461

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

B Analyte detected in the associated Method Blank

80

120

0

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

110

Page 6 of 6

0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

#### Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number: 1211361 Received by/date: AT 11/08/12 anne Stran Logged By: Anne Thorne 11/8/2012 10:00:00 AM Completed By: **Anne Thorne** 11/8/2012 Reviewed By: Chain of Custody 1. Were seals intact? Yes No Not Present ✓ Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes V No NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗌 5. Was an attempt made to cool the samples? 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 V No 8. Sufficient sample volume for indicated test(s)? 9 Are samples (except VOA and ONG) properly preserved? Yes V No 10. Was preservative added to bottles? Yes No 🗸 NA Yes No No VOA Vials 11. VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? 15. Is it clear what analyses were requested? Yes V No Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes No NA V 17. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Temp °C | Condition Seal Intact | Seal No Seal Date Signed By Cooler No

Good

Yes

Chain-of-Custody Record  Client: BLAGG ENGINEERING INC.			Turn-Around							_	BIX	/T F	20	811	ME	BIT	AI					
			Standard □ Rush Project Name:				HALL ENVIRONMENTAL ANALYSIS LABORATORY															
	BP AMERICA  Mailing Address: P.O. Box 97			GCU ISTE				www.hallenvironmental.com														
Mailing								4901 Hawkins NE - Albuquerque, NM 87109														
BLOOMFIELD, NM 97413			Project #:				Tel. 505-345-3975 Fax 505-345-4107															
Phone #: 505-632-119 9												A	nal	ysis	Req	ues	t					
email or Fax#:			Project Manager:					only)	sel)					(4)							Τ	
QA/QC Package:			J. BLACO				(8021)	IS OF	(Gas/Diesel)					4,80	PCB's							
Standard   Level 4 (Full Validation)							s (8	(Ga	as/					РО,	PC							
Accreditation			Sampler: J - BLAGE				#B	TPH (Gas	B (G	7	=	-		02	8082						2	
□ NELAP □ Other			On light with X (Yes				H	+ 1	015	118.	504.	AP		03,1	8/8		(A)				or 7	
□ EDD (Type)			Sample Jem	perature:	1.0			MTBE-	9 p	pd 4	po	or	stals	Z,	ide	(A	-\	以			>	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	ir HEALI 12-11361		BTEX + WIBE FIMB's	BTEX + MT	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLORINE			Air Bubbles
1/5/12	1506	5011	95 BGT GRAS E 6	4 02 ×1	COSI	ar-spirotop	201	X		X	X								X		$\top$	T
			00000	( 0 0	-555		001													$\top$	_	+
										$\neg$		-							$\vdash$	+	+	+
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-							2													+	+	+
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									-	-		-	-	_		-			$\rightarrow$	+	+	+
Date:	Time:	Polinguish	od by:	Received by:		Date T	îme	Por	orko		- 0 -			20	01/	0	-012	P	1			
1/2/12	11272	Relinguished by:    Relinguished by:   Relinguished		Mustra Walter 11/1/12 1120 Received by Date Time						Remarks: GRO + DRO ON 8015B  BILL BLALL  CBP CONTACT: JEFF PEACE  possibility. Any sub-contracted data will be clearly notated on the analytical report												
1/1/12	1709	Mhr	the Warters	ontracted together as	an	11/681	1/2/60	CB	P (	ON	TAC	<i>†</i> ;	JE	FF.	PER	CE	tod on	the or	nahdias	1		



