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

Alternative Method:

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.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action:
Permit of a pit or proposed alternative method  Solution Closure of a pit, below-grade tank, or proposed alternative method  JUN 02 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.
Operator: BP America Production CompanyOGRID#:778
Address:200 Energy Court, Farmington, NM 87401
Facility or well name:W. H. Riddle 1
API Number:3004509328 OCD Permit Number:
U/L or Qtr/QtrLSection24Township30NRange10WCounty:San Juan
Center of Proposed Design: Latitude36.79483 Longitude107.84126 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: Thicknessmil LLDPE HDPE 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 _Double walled/double bottomed; side walls not visible
Liner type: Thicknessmil

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

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school,	hospital.
institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Alternate. Please specify	
6.  Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.16.8 NMAC	
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.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable 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
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks)  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.	
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 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 19.1 and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11.  Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.	uments are
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	15.17.9 NMAC
Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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	
<ul> <li>□ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>	
<ul> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> <li>□ Emergency Response Plan</li> <li>□ Oil Field Waste Stream Characterization</li> <li>□ Monitoring and Inspection Plan</li> </ul>	
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 Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal	luid Management Pit
Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial  Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC  □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.  Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC  Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	110

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain.	☐ Yes ☐ No
- 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 plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - 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 cannot 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	II NMAC 5.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believe	ef.
Name (Print):	
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: 7/7/  Title: OCD Permit Number:	12015
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 to the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
☐ Closure Completion Date:3/12/2015	
Closure Completion Date:3/12/2015  20.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loc ☐ If different from approved plan, please explain.	op systems only)

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure r belief. I also certify that the closure complies with all applicable closure requirem	
Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Name (Print):Jeff Peace	Date:June 2, 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

### <u>W H Riddle 1</u> <u>API No. 3004509328</u> <u>Unit Letter L, Section 24, T30N, R10W</u>

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

### General Closure Plan

- 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 sent. The BGT was removed as part of location stripping operations since the well has been plugged and abandoned. As a result the normal notification was not made.
- 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 sent. The BGT was removed as part of location stripping operations since the well has been plugged and abandoned. As a result the normal notification was not made.
- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)

- c. Basin Disposal, Permit NM-01-0005 (Liquids)
- d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

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

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

All equipment associated with the BGT has been removed.

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

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

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

Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results indicate no release occurred.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil. This area will be reclaimed since the well has been plugged and abandoned.

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 will be reclaimed as part of final reclamation since the well has been plugged and abandoned.

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 will be reclaimed as part of final reclamation since the well has been plugged and abandoned.

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 will be reclaimed as part of final reclamation since the well has been plugged and abandoned.

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 since the well has been 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.

<u>District 1</u> 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 <u>District IV</u> 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.

			Rel	ease Notifi	catior	and Co	orrective A	ction				
						<b>OPERA</b>	ΓOR		Initia	al Report	⊠ I	Final Report
Name of Co						Contact: Jef	<del></del>					
Address: 20 Facility Nai		Court, Farm	ington, N	M 87401			No.: 505-326-94					
Facility Nai	me: w. n.	Kiddle 1				racimy Typ	e: Natural gas v	wen				
Surface Ow	ner: Feder	ral		Mineral (	Owner: 1	Federal		A	API No	. 30045093	28	
				LOC	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West	Line	County: Sa	n Juan	
L	24	30N	10W	1,650	South		990	West				
		Lat	itude3	6.79483		_ Longitud	e107.84126			<u> </u>		
				NAT	ΓURE	OF REL	EASE					
Type of Rele							Release: N/A			Recovered: N		
Source of Re	lease: belov	w grade tank -	- 95 bbl			Date and I-N/A	lour of Occurrenc	e: Da	ate and	Hour of Disc	overy: 1	N/A
Was Immedi	ate Notice (		Vec F	] No ⊠ Not R	eguired	If YES, To	Whom?					
By Whom?	<del></del>			1 140 27 140014		Date and F	lour					
Was a Water	course Rea	ched?					olume Impacting t	the Waterco	urse.		-	
			Yes 🗵	] No			. •					ļ
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*								
				n Taken.* Sampl and chlorides bel					moval t	to ensure no	soil imp	acts from
				ken.* BGT was re since the well ha				T was samp	oled. Ti	he area unde	the BG	T was
regulations a public health should their or or the environ	Il operators or the envi operations l nment. In a	are required to ronment. The nave failed to	o report and acceptant adequately OCD accep	e is true and comp nd/or file certain ce of a C-141 report investigate and optance of a C-141	release ne ort by the emediate	otifications are NMOCD me contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions eport" does eat to groun	for relation for relationships for relationships for the formal for relationships fo	eases which i eve the operation, surface was	may end ator of li ter, hum	langer iability an health
	1	0					OIL CON	SERVAT	CION	DIVISIO	N	
Signature:	John 1	Your		_								i
Printed Name	-					Approved by	Environmental S	pecialist:				
		tal Coordinate	or			Approval Dat	e:	Expi	iration l	Date:		
E-mail Addro	ess: peace.j	effrey@bp.co	m			Conditions of	Approval:			Attached		
Date: June 2	. 2015	Ī	Phone: 50:	5-326-9479						- tttaonoa		

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

CLIENT: BP		NGINEERING, IN LOOMFIELD, NI		API #:300450	9328
· 	(50	5) 632-1199		(if applicble):	Α
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / C	OTHER:	PAGE #:	of
SITE INFORMATION	I: SITE NAME: WH RIE	DDLE #1		DATE STARTED: 03	/10/15
QUAD/UNIT: L SEC: 24 TWP:	30N RNG: 10W PM:	NM CNTY: SJ	st: <b>NM</b>	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,650'S / 99		OTDUCE		ENVIRONMENTAL	
LEASE #: SF078200	PROD. FORMATION: MV CO	NTRACTOR: MBF - S, (	GENTRY	SPECIALIST(S):	JCB
REFERENCE POINT	- WELL HEAD (W.H.) GPS	COORD.: 36.7947	77 X 107.84159	GL ELEV.:	6,294'
1) 95 BGT (DW/DB)	GPS COORD.: 36	.79483 X 107.84126	DISTANCE/BEA	RING FROM W.H.:110',	N79E
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # O	R LAB USED: HALL			READING (ppm)
1) SAMPLEID: 95 BGT 5-pt. (	@ 5' SAMPLE DATE:	15 SAMPLETIME: 1302	LAB ANALYSIS: 801	5B/8021B/300.0 (CI)	0.0
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND S	ILT / SILTY CLAY / CLAY / GRAVI	EL/OTHER		
SOIL COLOR: DARK YELLOV		PLASTICITY (CLAYS): NON PLASTI	C / SLIGHTLY PLASTIC / C	OHESIVE / MEDIUM PLASTIC / HI	GHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL	i	DENSITY (COHESIVE CLAYS &			
CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST/MOIST/W		HC ODOR DETECTED: YES NO	EXPLANATION -	<u> </u>	
SAMPLE TYPE: GRAB (COMPOSITE) #		ANY AREAS DISPLAYING WETNE	SS: YES NO EXPLAN	NATION -	
DISCOLORATION/STAINING OBSERVED: YES	<del></del>				
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:		Anation:		, , , , , , , , , , , , , , , , , , ,	
OTHER: GAS WELL WAS RECENTLY PL		)			
SOIL IMPACT DIMENSION ESTIMATION:	NA ft. X NA	ft. X <b>NA</b> ft.	EVON MATION EST	FINANTION (Cubio Vordo) :	NA
	NA ft. X NA  IEAREST WATER SOURCE: >1,000'	NEAREST SURFACE WATER:		TIMATION (Cubic Yards) : CD TPH CLOSURE STD: 1	,000 ppm
SITE SKETCH	BGT Located: off on site				
	BOT EGGALGA . OIL / OIT GIA	FLOTTEAN CIN			ppm RF =0.52
		BERM	[ ]		03/10/15
	то	DERIVI			
	METER RUN	<u> </u>	J	MISCELL. NO	JIE2
		FENC	, <u> </u>	/O: EF. #: <b>P-20</b>	<del></del>
			1 -	K: ZBEEBS0SJ	IS
			0   <del>p</del>	J#: X7-0060K	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		∣ FOR PBGTL ∖ PROD.	MEK -		3/10
$\oplus$		T.B. ~ 5' LOCA B.G.	O		7/14
P&A			Tar II	ppm = parts per million	1
MARKER			_^	•	
			( - S.P.D.	BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION TR = TANK ROTTOM: PRGTI = PREVIOUS BE	ON DEPRESSION; B.G. = BELOW GRADE; B = BE .OW-GRADE TANK LOCATION; SPD = SAMPLE P		W.H. = WELL HEAD;   L	lagnetic declination:	
	E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	TOM; DB - DOUBLE BOTTOM.		ragnetic declination:	IV C.
NOTES:		ONSITE: 03/10/	15		

### **Analytical Report**

### Lab Order 1503424

Date Reported: 3/12/2015

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: 95 BGT 5-PT @ 5'

Project: W.H. Riddle 1

**Collection Date:** 3/10/2015 1:02:00 PM

Lab ID: 1503424-001

Matrix: MEOH (SOIL) Received Date: 3/11/2015 8:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS	-			Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/11/2015 10:12:41 AM	1 18078
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/11/2015 10:12:41 AN	18078
Surr: DNOP	98.3	63.5-128	%REC	1	3/11/2015 10:12:41 AM	1 18078
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/11/2015 9:41:05 AM	18048
Surr: BFB	89.2	80-120	%REC	1	3/11/2015 9:41:05 AM	18048
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	3/11/2015 9:41:05 AM	18048
Toluene	ND	0.047	mg/Kg	1	3/11/2015 9:41:05 AM	18048
Ethylbenzene	ND	0.047	mg/Kg	1	3/11/2015 9:41:05 AM	18048
Xylenes, Total	ND	0.095	mg/Kg	1	3/11/2015 9:41:05 AM	18048
Surr: 4-Bromofluorobenzene	99.7	80-120	%REC	1	3/11/2015 9:41:05 AM	18048
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	30	mg/Kg	20	3/11/2015 10:15:52 AN	1 18083

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

#### Qualifiers:

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

Page 1 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1503424 12-Mar-15

Client:

Blagg Engineering

Project:

W.H. Riddle 1

Sample ID MB-18083

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date:

PBS

3/11/2015

Batch ID: 18083 Analysis Date: 3/11/2015 RunNo: 24785 SeqNo: 730064

Units: mg/Kg

**RPDLimit** 

Qual

Analyte Chloride

Result **PQL** 

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-18083 Client ID:

Prep Date:

LCSS

ND

14

Batch ID: 18083

RunNo: 24785

SeqNo: 730065

Units: mg/Kg

Qual

Analyte

Result

PQL SPK value SPK Ref Val %REC

15.00

1.5

Analysis Date: 3/11/2015

92.0

**RPDLimit** 

Page 2 of 5

LowLimit

HighLimit

110

%RPD

Chloride

3/11/2015

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits

RSD is greater than RSDlimit О

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Sample pH Not In Range

RL Reporting Detection Limit

Qualifiers:

Spike Recovery outside accepted recovery limits

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1503424

12-Mar-15

Client:	Blagg Engineering
Project:	W.H. Riddle 1

Project:	W.H. Rid	dle 1									
Sample ID	MB-18078	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	· ·
Client ID:	PBS	Batch	ID: <b>18</b>	078	F	RunNo: 2	4744				
Prep Date:	3/11/2015	Analysis D	ate: 3/	11/2015	S	SeqNo: 7	29182	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	ND	10								
J	e Organics (MRO)	ND .	50								
Surr: DNOP		10.		10.00		102	63.5	. 128			
Sample ID	LCS-18078	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	LCSS	Batch	ID: 18	078	F	RunNo: 24	4744				
Prep Date:	3/11/2015	Analysis D	ate: 3/	11/2015	8	SeqNo: <b>7</b> :	29183	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	51	10	50.00	0	102	67.8	130			
Surr: DNOP		5.2		5.000		105	63.5	128			
	1503424-001AMS	5.2 SampT	уре: МS		Tes			128 <b>8015D: Dies</b> e	el Range (	)rganics	
Sample ID	1503424-001AMS 95 BGT 5-PT @ 5'	SampT	ype: <b>MS</b>	<del></del> -			PA Method		el Range (	Organics	
Sample ID	95 BGT 5-PT @ 5'	SampT	ID: <b>18</b>	5 078	F	tCode: El	PA Method 4744			Organics	
Sample ID Client ID:	95 BGT 5-PT @ 5'	SampTy Batch	ID: <b>18</b>	3 078 11/2015	F	tCode: ER RunNo: 24 SeqNo: 72	PA Method 4744	8015D: Diese		<b>Organics</b> RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte	95 BGT 5-PT @ 5'	SampT Batch Analysis D	ID: <b>18</b> 9 ate: <b>3</b> /	3 078 11/2015	F S	tCode: ER RunNo: 24 SeqNo: 72	PA Method 1744 29185	8015D: Diese	(g	-	Qual
Sample ID Client ID: Prep Date: Analyte	95 BGT 5-PT @ 5' 3/11/2015	SampT Batch Analysis D Result	ID: <b>18</b> 6 ate: <b>3</b> /	5 078 11/2015 SPK value	SPK Ref Val	tCode: ER RunNo: 24 SeqNo: 73	PA Method 1744 29185 LowLimit	8015D: Diese Units: mg/K HighLimit	(g	-	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP	95 BGT 5-PT @ 5' 3/11/2015	SampT Batch Analysis D Result 44 4.8	ID: <b>18</b> 0 ate: <b>3</b> / PQL 9.8	SPK value 48.78 4.878	SPK Ref Val	Code: ER RunNo: 24 SeqNo: 7: %REC 90.7 99.1	PA Method 4744 29185 LowLimit 29.2 63.5	8015D: Diese Units: mg/K HighLimit 176	Kg %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP	95 BGT 5-PT @ 5' 3/11/2015 Drganics (DRO)	SampTy Batch Analysis D Result 44 4.8	ID: <b>18</b> 0 ate: <b>3</b> / PQL 9.8	S 078 11/2015 SPK value 48.78 4.878	SPK Ref Val 0	Code: ER RunNo: 24 SeqNo: 7: %REC 90.7 99.1	PA Method 4744 29185 LowLimit 29.2 63.5	8015D: Diese Units: mg/K HighLimit 176 128	Kg %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID:	95 BGT 5-PT @ 5' 3/11/2015  Drganics (DRO)  1503424-001AMSE	SampTy Batch Analysis D Result 44 4.8	ID: 180 ate: 3/ PQL 9.8  ype: MS	SPK value 48.78 4.878	SPK Ref Val 0	tCode: EF RunNo: 24 SeqNo: 7: %REC 90.7 99.1	PA Method 4744 29185 LowLimit 29.2 63.5 PA Method	8015D: Diese Units: mg/K HighLimit 176 128	%RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID:	95 BGT 5-PT @ 5' 3/11/2015  Drganics (DRO)  1503424-001AMSE 95 BGT 5-PT @ 5'	SampTr Batch Analysis D Result 44 4.8 SampTr Batch	ID: 180 ate: 3/ PQL 9.8  ype: MS	SPK value 48.78 4.878 078 11/2015	SPK Ref Val 0	RunNo: 24 SeqNo: 7:  %REC 90.7 99.1  ClCode: EF	PA Method 4744 29185 LowLimit 29.2 63.5 PA Method	8015D: Diese Units: mg/K HighLimit 176 128 8015D: Diese	%RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID: Prep Date:	95 BGT 5-PT @ 5' 3/11/2015  Drganics (DRO)  1503424-001AMSE 95 BGT 5-PT @ 5' 3/11/2015	SampTy Batch Analysis D Result 44 4.8 D SampTy Batch Analysis D	ID: 180 ate: 3/ PQL 9.8  ype: MS ID: 180 ate: 3/	SPK value 48.78 4.878 078 11/2015	SPK Ref Val 0 Tes:	RunNo: 24 SeqNo: 7:  %REC 90.7 99.1  COde: EF RunNo: 24 SeqNo: 7:	PA Method 4744 29185 LowLimit 29.2 63.5 PA Method 4744 29186	8015D: Diese Units: mg/K HighLimit 176 128 8015D: Diese Units: mg/K	%RPD el Range C	RPDLimit Organics	

#### Qualifiers:

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- E Value above quantitation range
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- O RSD is greater than RSDlimit
- 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
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 3 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1503424

12-Mar-15

Client:

Blagg Engineering

Project:

Analyte

W.H. Riddle 1

Sample iD MB-18048

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

**PBS** 

Batch ID: 18048

**PQL** 

RunNo: 24755

Prep Date: 3/9/2015 Analysis Date: 3/11/2015

SeqNo: 729519

Units: mg/Kg

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO)

ND 5.0 SPK value SPK Ref Val

%REC LowLimit

HighLimit

Surr: BFB

1000

91.2

TestCode: EPA Method 8015D: Gasoline Range

120

910

Result

Sample ID LCS-18048 Client ID:

Prep Date:

**LCSS** 

3/9/2015

SampType: LCS Batch ID: 18048

Analysis Date: 3/11/2015

RunNo: 24755

SeqNo: 729520

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result **PQL** 

SPK value SPK Ref Val

0

%REC 102

LowLimit

HighLimit 130 **RPDLimit** 

Qual

Surr: BFB

25

25.00 1000

97.9

80

%RPD

980

5.0

120

# Qualifiers:

J

Value exceeds Maximum Contaminant Level.

Analyte detected below quantitation limits .

Value above quantitation range Ε

RSD is greater than RSDlimit О

R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits Analyte detected in the associated Method Blank

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

Р Sample pH Not In Range

Reporting Detection Limit

Page 4 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1503424

12-Mar-15

Client:	Blagg Engineering
Project:	W.H. Riddle 1

Sample ID MB-18048	SampType: MBLK			Tes	tCode: E					
Client ID: PBS	Batcl	n ID: 18	048	F	RunNo: 2	4755				
Prep Date: 3/9/2015	Analysis D	Date: 3/	11/2015	\$	SeqNo: <b>7</b>	29558	Units: mg/K	ξg		
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-18048	Samp	Гуре: <b>LC</b>	s	Tes	8021B: Vola	tiles				
Client ID: LCSS	Batc	atch ID: 18048 RunNo: 24755								
Prep Date: 3/9/2015	Analysis [	nalysis Date: 3/11/2015 SeqNo: 729559				SeqNo: <b>729559</b> U				
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit				HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	1.000	0	103	76.6	128			
Toluene	0.99	0.050	1.000	0	98.7	75	124			
Ethylbenzene	1.0	0.050	1.000	0	101	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	99.3	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID 1503424-001AM	<b>S</b> Samp⊺	SampType: MS TestCode: EPA Method								
Client ID: 95 BGT 5-PT @	5' Batc	h ID: 18	048	F	RunNo: 2	4755				
Prep Date:	Analysis [	Analysis Date: 3/11/2015 SeqNe					Units: mg/F	ίg		
Analyte	lyte Result PQL SPK va		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9488	0	111	69.2	126	- 12000		
Toluene	0.99	0.047	0.9488	0	105	65.6	128			
Ethylbenzene	0.99	0.047	0.9488	0	104	65.5	138			
Xylenes, Total	2.9	0.095	2.846	0 103 63			139			
Surr: 4-Bromofluorobenzene	1.0		0.9488		109	80	120			

Sample ID 1503424-001AM	SD SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: 95 BGT 5-PT @	5' Batch	n ID: <b>18</b>	048	F	RunNo: 2	4755				
Prep Date:	Analysis D	ate: 3/	11/2015	8	SeqNo: <b>7</b>	29562	Units: mg/h	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.047	0.9488	0	101	69.2	126	8.89	18.5	
Toluene	0.92	0.047	0.9488	0	96.7	65.6	128	8.00	20.6	
Ethylbenzene	0.94	0.047	0.9488	0	98.6	65.5	138	5.27	20.1	
Xylenes, Total	2.8	0.095	2.846	0	97.8	63	139	5.08	21.1	
Surr: 4-Bromofluorobenzene	1.1		0.9488		111	80	120	0	0	

### Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
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- B Analyte detected in the associated Method Blank
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- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	BLAGG		Work Or	der Number:	15034	24			Repti	No: 1
Received by/dat	e: \_	X.	03/11/15			• • • • •				
Logged By:	Lindsay Ma	, Ingin	3/11/2015	B:09:00 AM			Streety	Haygo		
Completed By:	Lindsay Ma	ıngin	3/11/2015	B:11:36 AM			James 1	Aleggo		
Reviewed By:	AC	m 1	23/11	115						
Chain of Cus	tody	()		110		·				
1. Custody sea	ils intact on sa	mple bottles?	•		Yes		No		Not Present	•
2. Is Chain of C	Custody compl	ete?			Yes		No		Not Present [	
3. How was the	e sample delive	ered?			Cour	<u>er</u>				
Log In										
4. Was an atte	empt made to o	cool the samples	s?		Yes		No		NA	
5. Were all san	nples received	at a temperatu	re of >0° C to	6.0°C	Yes		No		NA [	J .
6. Sample(s) ir	n proper conta	iner(s)?			Yes		No			
7. Sufficient sa	mple volume f	or indicated test	(s)?		Yes		No			
8. Are samples				?	Yes	<b>₫</b>	No			
9. Was preserv	ative added to	bottles?			Yes		No		NA [	
10.VOA vials ha	ave zero heads	snace?			Yes	П	No	П	No VOA Vials	<b>∂</b>
11, Were any sa			ken?		Yes		No	_		
, , , , ,	<b>,</b>								# of preserved bottles checked	
12. Does paperv					Yes		No		for pH:	<2 or >12 unless noted)
(Note discret	pancies on cha		of Cuntodu?		Yes		No	$\Box$	(* Adjusted?	
14. Is it clear wh	•		or Custody?		Yes		No		-	
15. Were all hold						<b>₩</b>	, No		Checked b	ру:
(If no, notify	customer for a	uthorization.)							1 10 000 0000000000000000000000000	The transfer of the second section of the section of the second section of the section of the second section of the section o
Special Hand								_	r	
16. Was client n	otified of all dis	screpancies with	this order?		Yes	L	No	<u></u>	NA 8	<b>@</b> ` ····ŋ
Persor	Notified:		ATAM PENNSON AND AND AND AND AND AND AND AND AND AN	Date:	Too engage			<u> </u>		
By Wh	ŧ.	Colombian com servicine successive successiv	omenti de la comunicación de la co	Via:	] еМа	il 🗌	Phone [	Fax	In Person	<u></u>
Regard	2	Westernalisted Stages	A STATE OF THE PARTY OF THE PAR	and the second s	and the second s	have maked the p	A CONTRACTOR OF THE PARTY OF TH	- Commission of the Commission	The state of the s	14.7°
l	Instructions:			• • • • • • • • • • • • • • • • • • • •	<del></del>					
17. Additional re										
18. Cooler Info		ا ديسسورا	n_all ) .		۱ <sub>۳۲</sub> ا	. 1	- ا ـ ا ـ ا ـ ا ـ ا ـ ا	,, I		
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	72	. ~		Project Name:																	
lailing	Address:	P.O. 2	heerly 30x 97	W.H. RIDDLE 1				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
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mail o	mail or Fax#:			Project Mana	ger:			)	only)	30)				(7)	:						
A/QC Package:  Standard				J.	· BLAGG			\$ (8021)	(Gas or	30 / MF			SIMS)	PO4,SC	PCB's						
ccreditation    NELAP   Other				Sampler: e	J. Bush	□ Noi:		+WTBE=TWB's	трн	10/0	8.1)	1)	8270 8	NO <sub>2</sub>	/ 808		٩)				S
EDD	(Type)_			Sample Tem	3.7-40-7-77	2.1		Į,												احْ	
Date	Time	Matrix	Sample Request ID		Preservative Type		AL NO.	BTEX + WITH	BTEX + MTBE + TPH (Gas	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	Anions (F,CI,NO <sub>3</sub> ,NO <sub>3</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
hois	130Z	SOIL	95 BGT 5-pt e 5	402×1	COOL		01	X		x								x			
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ate:	Time: 1338	Relinquish	ed by:	Received by:	Walla	3/10/2015	Time 1338	Remarks: Bill BP PAYKEY: ZBEEBSOSJS													
late: Time: Relinquished by:			Received by:	XX	Date	75 10	PRUJECT: P-20  CONTACT: JEFF PEACE														
If necessary, samples submitted to Hall Environmental may be sub				contracted to other a	ccredited laborator	ies. This serve	s as notice of this	l s possi	bility.	Anv su					-			nalytic	al repor	t.	

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