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District I       1625 N. French Dr., Hobbs, NM 88240       En         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 ergy 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	
12219 Proposed Alternati	ve Method Permit or Closure I	Plan Application
$45-26137$ $\square$ Closure of a $\square$ Modification	tank registration it or proposed alternative method bit, below-grade tank, or proposed alternat to an existing permit/or registration only submitted for an existing permitted or	DIST. 3
Instructions: Please submit one appli	cation (Form C-144) per individual pit, below	-grade tank or alternative request
Please be advised that approval of this request does not relieve environment. Nor does approval relieve the operator of its res	the operator of liability should operations result i ponsibility to comply with any other applicable go	in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
1. Operator: BP America Production Company	OGRID #:	778
Address:200 Energy Court, Farmington, NM		
Facility or well name:Houck Gas Com C 1E		
API Number:3004526137	OCD Permit Number:9	195
U/L or Qtr/Qtr $C_{1}$ Section $6_{1}$ To	wnship <u>29N</u> Range 9W C	ounty:San Juan
Center of Proposed Design: Latitude36.758835		NAD: □1927 🛛 1983
Surface Owner: 🛛 Federal 🗌 State 🗌 Private 🗌 Triba	Trust or Indian Allotment	
<sup>2.</sup> <b>Pit:</b> Subsection F, G or J of 19.15.17.11 NMAC		
Temporary: Drilling Workover		
Permanent Emergency Cavitation P&A	] Multi-Well Fluid Management L	ow Chloride Drilling Fluid 🔲 yes 🔲 no
Lined Unlined Liner type: Thickness	mil 🔄 LLDPE 🗖 HDPE 🛄 PVC 🔲 OI	ther
String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bb	1 Dimensions: Lx Wx D
3.		
Below-grade tank: Subsection I of 19.15.17.11 NM		
Volume:95.0bbl Type of flu		
Tank Construction material: Steel		warflow chut off
Visible sidewalls and liner Visible sidewalls onl		
Liner type: Thicknessmil	· · · ·	
4.		
A. <u>Alternative Method</u> :		

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

<ul> <li>s.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>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)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li> </ul>	hospital,				
<ul> <li>6.</li> <li>Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)</li> <li>Screen Netting Other</li> <li>Monthly inspections (If netting or screening is not physically feasible)</li> </ul>					
<ul> <li><sup>7.</sup></li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>					
<ul> <li>8. <u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li>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.</li> </ul>					
<sup>9.</sup> Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ntable source				
General siting					
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	□ Yes □ No □ NA				
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 ☐ NA				
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 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				
<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					
Below Grade Tanks					
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 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					
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)					
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No				

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Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No							
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>								
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							
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No							
Temporary Pit Non-low chloride drilling fluid								
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	TYes No							
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No							
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>								
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No							
Permanent Pit or Multi-Well Fluid Management Pit								
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No							
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>								
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							
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No							
<sup>10.</sup> <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : 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.								
<ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC</li> </ul>								
Previously Approved Design (attach copy of design) API Number: or Permit Number:								
II.         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.         Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	cuments are							
<ul> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>A List of wells with approved application for permit to drill associated with the pit.</li> <li>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</li> <li>Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> </ul>	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:								

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<sup>12.</sup> <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.</i>	documents are						
<ul> <li>Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Climatological Factors Assessment</li> </ul>							
<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> </ul>							
<ul> <li>Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <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> </ul>							
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including $H_2S$ , Prevention Plan							
<ul> <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							
<sup>13.</sup> <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>							
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F.	luid Management Pit						
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)							
<ul> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>In-place Burial</li> <li>On-site Trench Burial</li> <li>Alternative Closure Method</li> </ul>							
Waste 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         Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of 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	□ Yes □ No □ NA						
<ul> <li>Ground water is between 25-50 feet below the bottom of the buried waste</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	□ Yes □ No □ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA						
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa       Image: Yes Image: Y							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       Image         -       Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence Yes Yes At the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site							
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							

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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 Geologi Society; Topographic map	
	a 100-year floodplain.	Yes No
-	FEMA map	Yes No
by a cha S P C C C C C C C C C C C C C	<u>Closure Plan Checklist</u> : (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be attached to the clock mark in the box, that the documents are attached.</i> iting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC roof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC onstruction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19 onstruction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirement rotocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC onfirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC /aste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC isposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standar oil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC e-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	9.15.17.11 NMAC s of 19.15.17.11 NMAC
17. Operati	or Application Certification:	
	v certify that the information submitted with this application is true, accurate and complete to the best of my knowledge.	and belief.
Name (I	Print): Title:	
Signatu	e: Date:	
	ddress: Telephone:	
18.		· · · · · · · · · · · · · · · · · · ·
	pproval:  Permit Application (including closure plan)  Closure Plan (only) OCD Conditions (see attachme cpresentative Signature:  Approval Date:	
OCDR		Y all active 1
Title: _	Compliance Office O OCD Permit Number:	
19. Closure	Report (required within 60 days of closure completion): 19.15.17.13 NMAC ions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and sub ure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please	
Instruct The clos	of the form until an approved closure plan has been obtained and the closure activities have been completed.	-
Instruct The clos section		-
Instruct The clos section of 20. Closure Was	of the form until an approved closure plan has been obtained and the closure activities have been completed.	/2012

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22. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure rep belief. I also certify that the closure complies with all applicable closure requireme	
Name (Print):Jeff Peace	Title: Area Environmental Advisor
Signature: Joh Peace	Date:September 25, 2014
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479

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

### BELOW-GRADE TANK CLOSURE PLAN

### Houck Gas Com C 1E API No. 3004526137 Unit Letter C, Section 6, T29N, R9W

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**

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- 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

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)

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- 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 againment associated with the BCT has been removed

# 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	36

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

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

- BP shall notify the division District III office of its results on form C-141.
   C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
   Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

# The area under the BGT was backfilled with clean soil and is still within the active 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 when the well is plugged and abandoned as part of final reclamation.

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.

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> State of New Mexico Energy Minerals and Natural Resources

> > 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.

Attached 🔲

Form C-141

Revised August 8, 2011

			Relo	ease Notifi	cation	and Co	orrective A	ction				
						<b>OPERATOR</b> Initial Report I Fin						
Name of Co	mpany: B	Р				Contact: Jeff Peace						
Address: 20	0 Energy	Court, Farmi	ngton, N	M 87401	,	Telephone No.: 505-326-9479						
Facility Nar	ne: Houck	Gas Com C	1E			Facility Typ	e: Natural gas v	vell				
Surface Owner: Federal Mineral Owne						Federal		API No	. 3004526137			
				LOCA	ATION	N OF REI	LEASE					
						South Line	Feet from the 1,365	East/West Line West	County: San Juan			
		Latit	ude36	.758835		_Longitud	e_108.822229_					
				NAT	TURE	OF RELI	EASE					
Type of Rele						Volume of	Release: N/A	Volume F	Recovered: N/A			
		v grade tank –	95 bbl				our of Occurrence	e: Date and	Hour of Discovery:			
Was Immedia	ate Notice (		Yes 🗌	] No 🖾 Not R	equired	If YES, To	Whom?					
By Whom?						Date and H	our					
Was a Water	course Read		Yes 🛛	No .		If YES, Vo	lume Impacting t	he Watercourse.				
If a Watercou	irse was Im	pacted, Descri										
the BGT. So	íl analysis r	esulted in TPI	H, BTEX	and chloride belo	w standa	rds.			to ensure no soil impacts from			
				ten.* BGT was re active well area.	moved a	nd the area u	nderneath the BG	T was sampled. T	he area under the BGT was			
regulations al public health should their o or the enviror	l operators or the envi: operations h oment. In a	are required to ronment. The ave failed to a	o report ar acceptanc dequately CD accep	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications ar NMOCD ma contamination	nd perform correct arked as "Final Re on that pose a thre	tive actions for rele eport" does not reli eat to ground water	uant to NMOCD rules and eases which may endanger eve the operator of liability , surface water, human health ompliance with any other			
Signature:	sff f	) page					OIL CONS	SERVATION	DIVISION			
Printed Name	: Jeff Peac	e		·		Approved by Environmental Specialist:						
Title: Area Environmental Advisor						Approval Dat	e:	Expiration Date:				

Conditions of Approval:

Phone: 505-326-9479

Date: September 25, 2014

E-mail Address: peace.jeffrey@bp.com

\* Attach Additional Sheets If Necessary

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: <b>3004526137</b> TANK ID (if applicble): <b>A</b>
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:	PAGE #: <u>1</u> of <u>1</u>
SITE INFORMATIO	N: SITE NAME: HOUCK GC C #1E	DATE STARTED: 11/13/12
QUAD/UNIT: C SEC: 6 TW	P: 29N RNG: 9W PM: NM CNTY: SJ ST: NM	DATE FINISHED:
1/4 -1/4/FOOTAGE: 790'N / 1,365		
LEASE #: SF 078199	PROD. FORMATION: UK CONTRACTOR: MBF - J. YEAGER	SPECIALIST(S):JCB
	T: WELL HEAD (W.H.) GPS COORD.: 36.75915 X 107.82	
		BEARING FROM W.H.: <b>150', S44E</b>
	GPS COORD.: DISTANCE	
	GPS COORD.: DISTANCE	
SAMPLING DATA:		OVM READ
	D 5' SAMPLE DATE: 11/13/12 SAMPLE TIME: 1325 LABANALYSIS: 418.	mqa)
,	SAMPLE DATE:	
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
•	SAMPLE DATE:SAMPLE TIME: LAB ANALYSIS:	
SOIL DESCRIPTIO	N: SOIL TYPE: SAND/SILTY SAND/SILT/SILTY CLAY/GRAVEL/	
SAMPLE TYPE: GRAB (COMPOSITE DISCOLORATION/STAINING OBSERVI		
	O EXPLANATION -	
ADDITIONAL COMMENTS:		
		STIMATION (Cubic Yards) :NA OCD TPH CLOSURE STD:00 ppm
SITE SKETCH	PLOT PLAN circle: attached 0	VM CALIB. READ. =
⊕ ₩.H.		VM CALIB. GAS = <u>100</u> ppm
	N   U	IME: <u>1:00</u> am(pm) DATE: <u>11/13/12</u>
	•	MISCELL. NOTES
		WO: N15074590
		PO #: PK: <b>ZEVH01BGT2</b>
	PBGTL	PJ#: <b>Z2-00690-C</b>
	T.B. ~ 5' B. G.	Permit date(s): 06/14/10
		OCD Appr. date(s): 11/29/11 Tank OVM = Organic Vapor Meter
	~~	ID ppm = parts per million
·		A BGT Sidewalls Visible: Y N BGT Sidewalls Visible: Y / N
X - S.P.D.		BGT Sidewalls Visible: Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS	ATTON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX; W.H. = WELL HEAD; BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT	Magnetic declination: <b>10°</b> E
APPLICABLE OR NOT AVAILABLE; SW-SIM	GLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	

### **Analytical Report** Lab Order 1211591

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

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Date Reported: 11/26/2012 Client Sample ID: 95 BGT 5-pt @ 5'

Project:	Houck GC C #1E				Collection I	Date: 11/13/2	2012 1:25:00 PM		
Lab ID:	1211591-001	Matrix: SOIL			Received Date: 11/14/2012 9:40:00 AM				
Analyses		Result	RL	Qual	Units	DF	Date Analyzed		
EPA ME	THOD 8015B: DIESEL RAN	IGE ORGANICS					Analyst: <b>JMP</b>		
Diesel R	ange Organics (DRO)	ND	9.8		mg/Kg	1	11/16/2012 8:52:07 AM		
Surr:	DNOP	88.8	77.6-140		%REC	1	11/16/2012 8:52:07 AM		
EPA ME	THOD 8015B: GASOLINE F	RANGE					Analyst: NSB		
Gasoline	e Range Organics (GRO)	ND	4.8		mg/Kg	1	11/16/2012 2:03:32 PM		
Surr:	BFB	116	84-116	S	%REC	1	11/16/2012 2:03:32 PM		
EPA ME	THOD 8021B: VOLATILES						Analyst: NSB		
Benzene	e	ND	0.048		mg/Kg	1	11/16/2012 2:03:32 PM		
Toluene		ND	0.048		mg/Kg	1	11/16/2012 2:03:32 PM		
Ethylber	zene	ND	0.048		mg/Kg	1	11/16/2012 2:03:32 PM		
Xylenes,	, Total	ND	0.095		mg/Kg	1	11/16/2012 2:03:32 PM		
Surr:	4-Bromofluorobenzene	105	80-120		%REC	1	11/16/2012 2:03:32 PM		
EPA ME	THOD 300.0: ANIONS						Analyst: JRR		

7.5

20

mg/Kg

mg/Kg

5

1

11/16/2012 11:50:34 AM

11/21/2012

Analyst: LRW

36

ND

Qualifiers:

\*

Chloride

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

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

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

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Client:	Blagg En										
Project:	Houck G	C C #1E									
Sample ID	MB-4864	BLK	Tes	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch	1D: <b>48</b>	64	F	RunNo: 6	970				
Prep Date:	11/16/2012	Analysis D	ate: 11	1/16/2012	5	SeqNo: 2	01879	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-4864	SampT	ype: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	SS Batch ID: 4864				RunNo: 6970					
Prep Date:	11/16/2012	Analysis D	ate: 11	/16/2012	S	eqNo: 2	01880	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.4	90	110			
Sample ID	1211591-001AMS	SampT	ype: MS	5	Tes	Code: El	PA Method	300.0: Anion	s		
Client ID:	95 BGT 5-pt @ 5'	Batch	ID: 48	64	F	lunNo: 6	970				
Prep Date:	11/16/2012	Analysis D	ate: 11	/16/2012	S	eqNo: 2	01884	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		49	7.5	15.00	36.08	83.0	64.4	117			
Sample ID	1211591-001AMSE	SampT	ype: MS	D	Test	Code: El	PA Method	300.0: Anion	s		<u> </u>
Client ID:	95 BGT 5-pt @ 5'	Batch	ID: 486	64	R	unNo: 6	970				
Prep Date:	11/16/2012	Analysis D	ate: <b>11</b>	/16/2012	S	eqNo: 2	01885	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		49	7.5	15.00	36.08	84.7	64.4	117	0.524	20	

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211591

26-Nov-12

#### Qualifiers:

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

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

Hall	Envir	onmental	Analysis	s Labora	tory, Inc.
					<i>u</i> )

Client:Blagg EngineeringProject:Houck GC C #1E

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Sample ID MB-4901	SampType: MBLK	TestCode: EPA Method	418.1: TPH	
Client ID: PBS	Batch ID: 4901	RunNo: 7021		
Prep Date: 11/19/2012	Analysis Date: 11/21/2012	SeqNo: 203589	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20			
Sample ID LCS-4901	SampType: LCS	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS	Batch ID: 4901	RunNo: 7021		
Prep Date: 11/19/2012	Analysis Date: 11/21/2012	SeqNo: 203590	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	100 20 100.0	0 104 80	120	
Sample ID LCSD-4901	SampType: LCSD	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS02	Batch ID: 4901	RunNo: 7021		
Prep Date: 11/19/2012	Analysis Date: 11/21/2012	SeqNo: 203591	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	110 20 100.0	0 106 80	120 1.28	20

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

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

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

WO#: 1211591

26-Nov-12

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Hall Environmental	Analysis Lat	norstory. Inc
	Analysis Lai	JULATOLY, INC.

WO#: 1211591

26-Nov-12

Client: Project:	Blagg En Houck G	igineering C C #1E									
Sample ID	MB-4850	SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	PBS	Batch	iD: 48	50	F	RunNo: 6	927				
Prep Date:	11/15/2012	Analysis D	ate: 1	1/16/2012	S	SeqNo: 2	200398	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 9.8	10	10.00		98.0	77.6	140			
Sample ID	LCS-4850	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Dies	el Range (	Drganics	
Client ID:	LCSS	Batch	ID: 48	50	F	RunNo: 6	927				
Prep Date:	11/15/2012	Analysis D	ate: 1	1/16/2012	S	SeqNo: 2	00399	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	45	10	50.00	0	90.4	47.4	122			
Surr: DNOP		4.1		5.000		82.4	77.6	140			
Sample ID	1211614-001AMS	SampT	ype: MS	8	Tes	tCode: E	PA Method	8015B: Dies	el Range (	Drganics	
Client ID:	BatchQC	Batch	ID: 48	50	F	RunNo: 6	927				
Prep Date:	11/15/2012	Analysis D	ate: 1	1/16/2012	S	SeqNo: 2	00401	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range (	Organics (DRO)	50	10	51.71	0	97.2	12.6	148			
Surr: DNOP		4.4		5.171		84.5	77.6	140			
Sample ID	1211614-001AMSI	SampT	ype: <b>M</b> S	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range C	Drganics	
Client ID:	BatchQC	Batch	ID: 48	50	F	unNo: 6	927				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	S	eqNo: 2	00402	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ũ	Drganics (DRO)	42	9.6	48.22	0	86.5	12.6	148	18.5	22.5	
Surr: DNOP		3.9		4.822		81.7	77.6	140	0	0	

#### Qualifiers:

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

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

WO#: 1211591

26-Nov-12

Client:Blagg EngineeringProject:Houck GC C #1E

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Sample ID MB-4851	SampT	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	
Client ID: PBS	Batch	h ID: 48	51	F	RunNo: e	6951				
Prep Date: 11/15/2012	Analysis D	Date: 1	1/16/2012	5	SeqNo: 2	202014	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	84	116			
Sample ID LCS-4851	SampT	Type: LC	S	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 48	51	R	RunNo: 6	951				
Prep Date: 11/15/2012	Analysis D	Date: 1	1/16/2012	S	SeqNo: 2	202015	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.3	74	117			
Surr: BFB	1000		1000		104	84	116			
Sample ID 1211653-001AN	IS SampT	туре: <b>М</b>		Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID: BatchQC	Batch	n ID: 48	51	R	RunNo: 6	951				
Prep Date: 11/15/2012	Analysis D	ate: 11	/16/2012	S	SeqNo: 2	02020	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	. 24.63	0	118	70	130			
Surr: BFB	1100		985.2		109	84	116			
	CompT	ype: MS		Test	tCode: E	PA Method	8015B: Gasc	line Rang	e	
Sample ID 1211653-001AN	ISD Sampi	ype. me								
Sample ID 1211653-001AN Client ID: BatchQC	•	יאספי. אוני 1 ID: <b>48</b>			RunNo: 6	951				
•	•	n ID: <b>48</b>	51	R	RunNo: <b>6</b> GeqNo: <b>2</b>		Units: mg/K	(g		
Client ID: BatchQC	Batch	n ID: <b>48</b>	51  /16/2012	R	SeqNo: 2		Units: <b>mg/F</b> HighLimit	Kg %RPD	RPDLimit	Qual
Client ID: BatchQC Prep Date: 11/15/2012	Batch Analysis D	n ID: <b>48</b> Date: <b>1</b> 1	51  /16/2012	R	SeqNo: 2	202021	_	-	RPDLimit 22.1	Qual

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

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Client: Project:	Blagg En Houck G	gineering C C #1E									
Sample ID	MB-4851	Samp <sup>-</sup>	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 48	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis [	Date: 1	1/16/2012	S	SeqNo: 2	02026	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual
Benzene		ND	0.050				LOWEITIN				Qua
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	LCS-4851	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	: <u></u>	
Client ID:	LCSS	Batc	h ID: 48	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis [	Date: 11	1/16/2012	5	SeqNo: 2	02027	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	100	76.3	117		· ·	
Toluene		1.0	0.050	1.000	0	101	80	120			
Ethylbenzene		1.0	0.050	1.000	0	103	77	116			
Xylenes, Total		3.1	0.10	3.000	0	103	76.7	117			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		112	80	120			
Sample ID	1211591-001AMS	SampT	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	95 BGT 5-pt @ 5'	Batc	h ID: 48	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis [	Date: <b>1</b> 1	1/16/2012	S	SeqNo: 2	02031	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85	0.048	0.9506	0	89.7	67.2	113			
Toluene		0.87	0.048	0.9506	0	91.1	62.1	116			
Ethylbenzene		0.89	0.048	0.9506	0	93.3	67.9	127			
Xylenes, Total		2.7	0.095	2.852	0	93.7	60.6	134			
Surr: 4-Brom	ofluorobenzene	1.0		0.9506		109	80	120			
Sample ID	1211591-001AMSI	D Samp	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	95 BGT 5-pt @ 5'	Batc	h ID: <b>48</b>	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis E	Date: <b>1</b> 1	1/16/2012	S	SeqNo: 2	02032	Units: mg/H	٢g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.048	0.9653	0	92.7	67.2	113	4.77	14.3	
Toluene		0.93	0.048	0.9653	0	96.4	62.1	116	7.20	15.9	
Ethylbenzene		0.95	0.048	0.9653	0	98.7	67.9	127	7.23	14.4	
Xylenes, Total		2.8	0.097	2.896	0	98.1	60.6	134	6.16	12.6	
Surr: 4-Bron	ofluorobenzene	1.0		0.9653		106	80	120	0	0	

#### Qualifiers:

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

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

26-Nov-12

WO#: 1211591

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-3	mental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 5-3975 FAX: 505-345-4107 www.hallenvironmental.com	e Log-In Check Lis
Client Name: BLAGG	Work Order Number: 1211591	
Received by/data		
Logged By: Ashley Gallegos 11/14/2012 9:4	:00 AM	
Completed By: Ashley Gallegos 11/14/2012 2:5	:02 PM	
Reviewed By:	U -	
Chain of Custody		
1 Were seals intact?	Yes No Not Pres	ent 🗸
2. Is Chain of Custody complete?	Yes 🗸 No Not Pres	÷
3 How was the sample delivered?	Courier	
l og in		
Log In		<b>N</b> 1A
<ol><li>Coolers are present? (see 19. for cooler specific information</li></ol>	Yes 🗸 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 ✔ No	NA
7. Sample(s) in proper container(s)?	Yes 🗸 No	
8. Sufficient sample volume for indicated test(s)?	Yes 🗸 No	
9 Are samples (except VOA and ONG) properly preserved?	Yes ✔ No	
10. Was preservative added to bottles?	Yes No 🗸 N	NA :
11. VOA vials have zero headspace?	Yes No No VOA V	ials 🗸
12. Were any sample containers received broken?	Yes No 🗸	
13. Does paperwork match bottle labels?		preserved les checked
(Note discrepancies on chain of custody)	for p	oH: (<2 or >12 unless noted
<ul><li>14. Are matrices correctly identified on Chain of Custody?</li><li>15. Is it clear what analyses were requested?</li></ul>	Yes ✔ No Yes ✔ No	Adjusted?
16. Were all holding times able to be met?	Yes ✔ No	
(If no, notify customer for authorization.)		Checked by:
Special Handling (if applicable)		
17. Was client notified of all discrepancies with this order?	Yes No	NA 🗸
Person Notified:	Date:	
By Whom:	/ia: eMail Phone Fax	In Person
Regarding:		
Client Instructions:		

.

### 19. Cooler Information

	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1	1.0	Good	Yes			

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