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

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

			· · · · · · · · · · · · · · · · · · ·		
25		osed-Loop System			
9170	Proposed Alter	native Method Per	mit or Closure	Plan Application	<u>on</u>
Det	Modific	of a pit, closed-loop systemation to an existing permiplan only submitted for a	em, below-grade tank it	, or proposed alterna	tive method
F do u o o	- · · · ·		double double do	6-1 1- 4	
Please be advised t	tions: Please submit one application that approval of this request does not does approval relieve the operator of	relieve the operator of liability	should operations result	in pollution of surface v	vater, ground water or the
1.	MERICA PRODUCTION CO		OCRID#	778	
	MERICA PRODUCTION CO Energy Court, Farmington, N		UGRID#:	770	
	name: A L ELLIOTT D 009E	W 07401			
1 1		OCT) D		
API Number: 5	004526473 J Section 11.0	UCL	Permit Number:	C Con luc	an Causaba
U/L or Qtr/Qtr	Section 11.0	Lownship 29.01N	Range 09VV	County: San Jua	in County
	sed Design: Latitude 36.73767				_ NAD: ∐1927 🗷 1983
Surface Owner:	➤ Federal ☐ State ☐ Private ☐	Tribal Trust or Indian Allot	ment		
2.	ction F or G of 19.15.17.11 NMA			R	CVD MAY 10'11
	Drilling Workover			0	IL CONS. DIV.
1 –	☐ Emergency ☐ Cavitation ☐ P	C- A			DIST. 3
	nlined Liner type: Thickness			74k	
1		mii [] CLDPE [HDPE PPVC C	otner	
String-Reinfo			V-1	II Donor	W 5
Liner Seams:	Welded Factory Other	· · · · · · · · · · · · · · · · · · ·	volume:bi	DI Dimensions: L	x wx D
3.	System: Subsection H of 19.15.	17 H NMAC			
	on: P&A Drilling a new wo		(Applies to activities w	hich require prior appro	oval of a permit or notice of
1 '	☐ Above Ground Steel Tanks [Haul-off Bins Other			
Lined Un	lined Liner type: Thickness	mil 🔲 LLDPI	E ☐ HDPE ☐ PVC [Other	· · · · · · · · · · · · · · · · · · ·
Liner Seams:	Welded Factory Other		_		
4.					
	e tank: Subsection I of 19.15.17.	11 NMAC (Closure Plan submitt	al only)		RCVD FEB 27'14
Volume: 45.0	bbl Type of flo	aid: Produced Water			OIL CONS. DIV.
Tank Construction	on material: Steel				DIST. 3
☐ Secondary c	ontainment with leak detection	Visible sidewalls, liner, 6-	inch lift and automatic c	overflow shut-off	
☐ Visible sides	walls and liner Visible sidewa	lls only 🗌 Other			
Liner type: Thic	knessmil	☐ HDPE ☐ PVC ☐ O	ther		
5.			 		
Alternative	Method:				
Submittal of an o	exception request is required. Exc	eptions must be submitted to	the Santa Fe Environm	ental 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						
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)						
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	-					
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.						
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No					
Within a 100-year floodplain FEMA map	☐ Yes ☐ No					

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
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 Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Cili Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Soli 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 F of 19.15 17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC	

Form C-144

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)							
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	more than two						
Disposal Facility Name: Disposal Facility Permit Number:							
Disposal Facility Name: Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	vice and operations?						
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							
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 sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be						
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
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							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - IWATERS database; Visual inspection (certification) of the proposed site							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No						
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No						
Within a 100-year floodplain FEMA map	☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 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 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Jeffrey Peace Title: Field Environmental Advisor
Signature: Juffrey Leace BLS Date: 5-10-11
e-mail address: Peace.Jeffrey@bp.com Telephone: 505-326-9479
20. OCD Approval: Permit Application (including closure plant) Closure Plan (only) (CD Gonditions (see attachment)
OCD Representative Signature: Sig
Title: Compliance Office VOCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date: 3-29-2012
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized. Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
24. <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
 ☐ Waste Material Sampling Analytical Results (required for on-site closure) ☐ Disposal Facility Name and Permit Number
Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Stre Reclamation (Photo Documentation)
On-site Closure Location: Latitude 36.7376 Longitude -/07.74428 NAD: 1927 🗷 1983
25. Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print): Tell Peace Title: Field Environmental Advisor
Name (Print): Jeft Peace Title: Field Environmental Advisor Signature: Date: February 28, 2014
e-mail address. Peace-je-Krey @ bf. com Telephone: (505) 326-9479

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

A. L. Elliott D 9E – Tank B (45 bbl)

API No. 3004526473

Unit Letter J, Section 11, T29N, R9W

RCVD FEB 27'14 OIL CONS. DIV.

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

General Closure Plan

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
 - No notice was made due to misunderstanding of the notice requirements. Closure notices will be made for all BGT closures from this point forward.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
 - No notice was made due to misunderstanding of the notice requirements. Closure notices will be made for all BGT closures from this point forward.
- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)

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

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

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

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

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	Tank B - 45 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 and is still within the active area.

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

The area over the BGT is 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.

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

Certification section of C-144 has been completed.

approved closure plan.

*District 1 .

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Submit 1 Conv to appropriate District Office in

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.

			Rele	ease Notific	catio	n and	l Co	orrective A	ction						
						OPE	RAT	ΓOR		☐ Initia	al Report	\boxtimes	Final Report		
Name of Company: BP							Contact: Jeff Peace								
		Court, Farmi	ngton, N	M 87401		Teleph	one N	No.: 505-326-94	1 79						
Facility Na	me: A. L. I	Elliott D 9E				Facility	у Тур	e: Natural gas v	well						
Surface Ow	ner: Feder	al		Mineral (Owner:	Federa	1			API No	. 3004526	1 73			
				LOCA	ATIO	N OF	REI	LEASE			•				
Unit Letter	Section	Township	Range	Feet from the		1/South L		Feet from the	East/V	Vest Line	County: S	an Juar	 1		
J	11	29N	9W	1,800	South			1,590	East						
		Lati	tude 30	6.73767		Long	gitud	e107.74428_				_	"		
				NAT	URF	OFR									
Type of Rele	ase: none		·					Release: N/A		Volume I	Recovered: 1	N/A			
		w grade tank -	45 bbl, Ta	ank B				lour of Occurrence	ce:		Hour of Dis		:		
Was Immedi	ate Notice (_		· · · · · · · · · · · · · · · · · · ·			ES, To	Whom?							
			Yes _	No 🛛 Not R	equired										
By Whom?							and H								
Was a Water	course Read		v	l Ni		If YE	ES, Vo	olume Impacting	the Wate		Aun ===				
			Yes ⊠	. NO		RCVD FEB 27'14									
If a Waterco	urse was Im	pacted, Descr	be Fully.*							(IL COMS	DI			
											DIST.		•		
								the BGT was do s results are attac		g removal	to ensure no	soil in	npacts from		
				en.* BGT was re active well area.	moved	and the	area u	nderneath the BC	GT was s	ampled. T	he area und	er the B	GT was		
regulations a public health should their or the enviro	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								ndanger Tiability man health						
. 00						OIL CONSERVATION DIVISION									
Signature: Off Peace															
						Approv	ed hv	Environmental S	Specialist				İ		
Printed Nam	e: Jeff Peac	<u>e</u>					<u> </u>			·					
Title: Field E	Environmen	tal Advisor				Approval Date: Expiration Date:									
							Conditions of Approval: Attached								
Date: February 25, 2014 Phone: 505-326-9479															

^{*} Attach Additional Sheets If Necessary

BP BP	BLAGG ENG	API#: 30 (<u>045264</u>	6473							
CLIENT:	P.O. BOX 87, BLO (505)	TANK ID (if applicble):	A&B								
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #:											
SITE INFORMATION: SITE NAME: A.L. ELLIOTT D #9E DATE STARTED:											
QUAD/UNIT: J SEC: 11 TWP:	29N RNG: 9W PM: N	M CNTY: SJ ST:	NM	DATE FINISHED:							
1/4 -1/4/FOOTAGE: 1,800'S / 1,590'E NW/SE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN LEASE #: SF078132 PROD. FORMATION: DK CONTRACTOR: MBF - C, ZELLITTI											
REFERENCE POINT	EDUCATION OF THE PROPERTY OF T										
	GPS COORD.: 36.73			ARING FROM W.H.:	154.5', I						
2) 45 BBL BGT (SW/DB) - B				ARING FROM W.H.;	195', N						
3)				ARING FROM W.H.;							
4)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:							
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB	BUSED: HALL				OVM READING					
	95) SAMPLE DATE: 03/29/12		 (SIS: 418 .1	/8015/8021/306	0.0/(CI)	(ppm) NA					
	45) SAMPLE DATE03/29/12					NA					
	SAMPLE DATE:				(/						
	SAMPLE DATE:										
SOIL DESCRIPTION		ID SILT / SILTY CLAY / CLAY / C									
SOIL COLOR: MODERATE		SIET SIET CEAT (CEAT (CE	SICAVEL/ OT								
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL	Y COHESIVE / COHESIVE / HIGHLY COHESIVE	PLASTICITY (CLAYS): NON PLASTIC / SLI	GHTLY PLASTIC / (COHESIVE / MEDIUM PLAS	TIC / HIGHLY PLA	STIC					
CONSISTENCY (NON COHESIVE SOILS) LO MOISTURE: DRY SLIGHTLY MOIST MOIST / W		DENSITY (COHESIVE CLAYS &									
SAMPLE TYPE: GRAB (COMPOSITE)		HC ODOR DETECTED: YES	NO EXPL	ANATION							
DISCOLORATION/STAINING OBSERVED				-							
ANY AREAS DISPLAYING WETNESS: YES NO	FXPI ANATION -										
ADDITIONAL COMMENTS: NO APPARE		EITHER BGT OBSERVED. 95	BGT REPLA	CED W/ 95 BBL A	GT						
SOIL IMPACT DIMENSION ESTIMATION DEPTH TO GROUNDWATER: <50' N				IMATION (Cubic Ya D TPH CLOSURE STI		NA					
SITE SKETCH	I I I I I I I I I I I I I I I I I I I				= 100	_ ppm					
SHESKEICH	BERM	PLOT PLAN circle: att				RF = 0.52					
	$(x \times x)$	(45)			Appm	1.0					
		PBGTL T,B. ~ 5'	N ME	NA am/pm		IA					
		B.G.	-	MISCELL		ES					
	EEL INMENT	•	\	O: N13031	03						
	A	DEDM	_	0#: 38904	/ LCEI	-					
PK: ZSCHWLLSEL PJ#: Z2-00690-C											
1	300 BBL		\) #. <u>LL-000</u> 3	/U-U						
PROD. TANK (95) - OCD Appr. date(s):(A) 5/10/11 (B)											
	PBGTL T.B. ~ 5'										
WELL B.G. Tank Permit dates: 5/10/1											
HEAD ⊕	X - S.P.D. A BGT Sidewalls Visible: Y /(N) NA										
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATI	NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW-GRADE; B = BELOW, T.H. = TEST HOLE; ~ = APPROX; W.H. = WELL HEAD; B GT Sidewalls Visible: Y (N) NA										
	LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT L <u>E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM;</u> C		- NO1 <u>M</u>	lagnetic declina	tion: 10°	<u>E</u>					
TRAVEL NOTES: CALLOUT:		ONSITE: 03/29/12 - M	ORN. (SCI	HED.)							

Analytical Report

Lab Order 1204095

Date Reported: 4/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 4.5 BGT)

Project: A

A L Elliott D #9E

Collection Date: 3/29/2012 11:13:00 AM

Lab ID:

1204095-002

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyst: JMP
4/6/2012 12:04:52 PM
4/6/2012 12:04:52 PM
Analyst: NSB
4/7/2012 3:52:13 AM
4/7/2012 3:52:13 AM
Analyst: NSB
4/7/2012 3:52:13 AM
Analyst: BRM
4/5/2012 11:35:41 AM
Analyst: JMP
4/6/2012

Qualifiers:

^{*/}X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

CI	hain-c	of-Cus	stody Record	Turn-Around 1	Time:			, o		ŀ	łΔ	11	F	NV	/TE	3O	NI	ME	:NT	ΓΔΙ	L	
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard ☐ Rush Project Name:				2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	di serie	#	IN	AL	YS	SIS	§ L	A	30	R/	ATO			,
Mailing A	ddress:	P.O. BO		1	A L Elliott D	# 9E		49	:01 F			w.ha NE -							ıQ.			
			FIELD, NM 87413	Project #:					el. 50					-	505.				,			
Phone #:		(505) 63	32-1199	1			1.15	Ø.				1						2.3 h		ő, ì	in crea	9
email or F	ax#:			Project Manag	ger:									SO4)								
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VI	ELEZ	#B+-(8021B)	onfy)	/Diesel						CB's						e	
Accreditat	tion:			Sampler:	NELSON VI		ř	(Gas	(Gas	_	<u> </u>		:	NO2,	382 P						amp	
□ NELAF		□ Other		On Ice:	ZiYes		ŧ	- TP.	0158	418.1)	504.1)	AH)		103,	s / 8((A)	6			ite s	
□ EDD (*	Time	Matrix	Sample Request ID	Container Type and #	erature: Zx Preservative Type	HEALNO:	BIEX + NATBE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method	EDB (Method	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	V) Add. O. A
3/29/12	1110	SOIL	5PC-TB @ 5.5' (95 BGT)	4 oz 2	Cool	- 001	٧	_	٧									1			٧	
3/29/12	1113	SOIL	5PC-TB @ 4.5' (45 BGT)	4 oz 2	Cool	-002	٧		٧	٧								1			٧	Γ
																						Г
				·																		
			·																			L
			,																			
			·		·																	L
																						L
			:																			
Date: Time: Relinquished by: 4/2/12 6902 Mm VI		Received by:	ا مالمه	Date Time 1/2/2 090Z	ВІ	nark LL DI	RECT	LY T	O BF		·											
Date:	Time:	Relinquish		Received by:		Date Time)14/05/12/030						3 Cc 3 1 0							L SEL			

.

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204095

09-Apr-12

Client:

Blagg Engineering

Project:

A L Elliott D #9E

Sample	ī	MD	1274
i Samble	יטו	IVI D-	13/4

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 1374

RunNo: 1929

Prep Date: 4/4/2012

Analysis Date: 4/5/2012

SeqNo: 53717

Units: mg/Kg HighLimit

Analyte

PQL SPK value SPK Ref Val %REC LowLimit

Chloride

ND 1.5

Sample ID LCS-1374

SampType: LCS

Analysis Date: 4/5/2012

PQL

1.5

TestCode: EPA Method 300.0: Anions

LowLimit

LowLimit

74.6

90

Client ID: LCSS

4/4/2012

Batch ID: 1374

RunNo: 1929 SeqNo: 53718

%REC

91.5

HighLimit

110

Units: mg/Kg

%RPD

%RPD

RPDLimit

RPDLimit Qual

Qual

Analyte Chloride

Prep Date:

Sample ID 1204092-003AMS

SampType: MS

Result

TestCode: EPA Method 300.0: Anions

Prep Date: 4/4/2012

BatchQC

Batch ID: 1374

RunNo: 1929

Client ID:

Analysis Date: 4/5/2012

SeqNo: 53724

92.6

Units: mg/Kg

Analyte

Result

PQL SPK value SPK Ref Val

1.5

%REC

HighLimit

118

%RPD **RPDLimit**

Qual

Qual

Chloride

Sample ID 1204092-003AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC

Batch ID: 1374

PQL

1.5

RunNo: 1929

Analyte

Prep Date:

4/4/2012

Analysis Date: 4/5/2012

16

16

15.00

15.00

SeqNo: 53725

Units: mg/Kg HighLimit

%RPD

RPDLimit

Chloride

Result

2.493

SPK value SPK Ref Val

15.00

SPK value SPK Ref Val %REC 2.493 92.5

LowLimit

74.6

118

0.0833

20

Qualifiers:

R

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range E

Analyte detected below quantitation limits RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Reporting Detection Limit

RL

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204095

09-Apr-12

Client:

Blagg Engineering

Project:

Analyte

A L Elliott D #9E

i		
	Sample ID	MB-1398

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 1398

RunNo: 1945

Units: mg/Kg

Prep Date: 4/5/2012 Analysis Date: 4/6/2012 **PQL**

20

SeqNo: 54175

HighLimit

RPDLimit

Qual

Petroleum Hydrocarbons, TR

Sample ID LCS-1398

ND

Result

SampType: LCS

TestCode: EPA Method 418.1: TPH

LCSS

RunNo: 1945

Client ID: Prep Date: 4/5/2012

Batch ID: 1398 Analysis Date: 4/6/2012

SeqNo: 54176

Units: mg/Kg

%RPD

Qual

Analyte Petroleum Hydrocarbons, TR Result PQL 100 20 SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

LowLimit 87.8

HighLimit 115

RPDLimit %RPD

Qual

Sample ID LCSD-1398

SampType: LCSD

TestCode: EPA Method 418.1: TPH RunNo: 1945

Client ID: LCSS02 Prep Date: 4/5/2012

Analyte

Batch ID: 1398 Analysis Date: 4/6/2012

Result

97

SeqNo: 54178

%REC

Units: mg/Kg HighLimit

115

RPDLimit

Petroleum Hydrocarbons, TR

SPK value SPK Ref Val

100.0

0

LowLimit

87.8

%RPD 2.78

20

100.0

97.4

8.04

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204095 *09-Apr-12*

__

Client:

Blagg Engineering

A L Elliott D #9E

Project: A L Elli	ott D #9E 								
Sample ID MB-1394	SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 1394		R	tunNo: 19	950				
Prep Date: 4/5/2012	Analysis Date: 4/6/2	012	S	eqNo: 5 4	1611	Units: mg/K	(g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	8.9	10.00		88.6	77.4	131			
Sample ID LCS-1394	SampType: LCS		Test	tCode: EF	A Method	8015B: Dies	el Range (Organics	
Ctient ID: LCSS	Batch ID: 1394		R	tunNo: 19	950				
Prep Date: 4/5/2012	Analysis Date: 4/6/2	012	S	eqNo: 54	1612	Units: mg/F	(g		
Analyte	Result PQL SI	⊃K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 10	50.00	0	79.1	62.7	139			
Surr: DNOP	4.2	5.000		83.8	77.4	131			
Sample ID 1204091-012AM	SampType: MS		Test	tCode: EF	PA Method	8015B: Dies	el Range (Organics	
Client ID: BatchQC	Batch ID: 1394		· R	lunNo: 19	950			•	•
Prep Date: 4/5/2012	Analysis Date: 4/6/2	012	S	SeqNo: 5 4	1715	Units: mg/Kg			
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 10	50.40	0	78.5	57.2	146			
Surr: DNOP	4.3	5.040		85.8	77.4	131			
Sample ID 1204091-012AM	SD SampType: MSD		Test	Code: EF	A Method	8015B: Dies	el Range (Organics	
Client ID: BatchQC	Batch ID: 1394		R	RunNo: 19	950				
Prep Date: 4/5/2012	Analysis Date: 4/6/2	012	S	SeqNo: 54	1716	Units: mg/K	(g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42 10	50.61	0	83.4	57.2	146	6.41	26.7	
Surr: DNOP	4.3	5.061		85.1	77.4	131	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204095

09-Apr-12

Client: Project: Blagg Engineering

A L Elliott D #9E

Sample ID	MB-1381
Client ID:	DDG

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

4/4/2012

Batch ID: 1381

RunNo: 1936

Units: mg/Kg

HighLimit

Prep Date: Analyte

Analysis Date: 4/5/2012 Result PQL SPK value SPK Ref Val %REC LowLimit

SeqNo: 54559

RPDLimit Qual

Gasoline Range Organics (GRO)

ND 940

1,000

SPK value SPK Ref Val

SPK value SPK Ref Val

24.56

982.3

69.7

LowLimit

LowLimit

85.4

69.7

98.5

69.7

121

%RPD

Surr: BFB

Sample ID LCS-1381

SampType: LCS Batch ID: 1381

5.0

TestCode: EPA Method 8015B: Gasoline Range RunNo: 1936

94.1

Prep Date: 4/4/2012

Client ID: LCSS

Analysis Date: 4/5/2012

SeqNo: 54561 %REC

Units: mg/Kg HighLimit

RPDLimit

Analyte Surr: BFB

Result **PQL** 29 Gasoline Range Organics (GRO) 1,000

5.0 25.00 1,000

104

116

133 121 Qual

Sample ID 1204091-012AMS

Client ID: BatchQC

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range RunNo: 1973

Analyte

Prep Date:

Analysis Date: 4/7/2012 4/4/2012

Result

Result

27

SeqNo: 55021 %REC

109

101

Units: mg/Kg HighLimit

%RPD

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

1,000

Batch ID: 1381

PQL

4.9

TestCode: EPA Method 8015B: Gasoline Range

147

121

Sample ID 1204091-012AMSD Client ID: **BatchQC**

SampType: MSD Batch ID: 1381

RunNo: 1973

Prep Date: 4/4/2012

Analysis Date: 4/7/2012

PQL

SeqNo: 55022

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual 19.2

0

Analyte Gasoline Range Organics (GRO) Surr: BFB

5.0 28 24.75 1,000 990.1

0

SPK value SPK Ref Val

%REC 113 102

85.4 69.7

LowLimit

147 121

4.55 0

Qualifiers:

R

Value exceeds Maximum Contaminant Level */X

Value above quantitation range E

Analyte detected below quantitation limits RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 6 of 7

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1204095

09-Apr-12

Client:

Blagg Engineering

Project:

A L Elliott D #9E

Sample ID MB-1381	SampType: MBLK			Tes						
Client ID: PBS	Batcl	h ID: 13	81	F	RunNo: 1	937				
Prep Date: 4/4/2012	Analysis E	Date: 4/	5/2012	\$	SeqNo: 5	4588	Units: mg/h	(g		
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	0.89		1.000		89.3	80	120			
Sample ID LCS-1381	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 13	81	F	RunNo: 1	937				

Sample ID LC3-1301	restouce. EFA Wethou 6021B. Volatiles									
Client ID: LCSS	Batc	Batch ID: 1381				937				
Prep Date: 4/4/2012	Analysis [Date: 4/	5/2012	SeqNo: 54591			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.7	83.3	107			
Toluene	0.96	0.050	1.000	0	96.4	74.3	115			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	96.7	85.2	123			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID 1204096-001AMS	Sampl	Гуре: М	6	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batc	h ID: 13	81	F	RunNo: 1	974				
Prep Date: 4/4/2012	Analysis [Date: 4/	7/2012	S	SeqNo: 5	5048	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.048	0.9634	0	95.0	67.2	113			
Toluene	0.95	0.048	0.9634	0	99.1	62.1	116			
Ethylbenzene	0.95	0.048	0.9634	0	98.9	67.9	127			
Xylenes, Total	2.9	0.096	2.890	0	100	60.6	134		*	
Surr: 4-Bromofluorobenzene	0.90		0.9634		93.0	80	120			

Sample ID 1204096-001AM	TestCode: EPA Method 8021B: Volatiles									
Client ID: BatchQC	Batch	Batch ID: 1381			RunNo: 1					
Prep Date: 4/4/2012	Analysis D	ate: 4/	7/2012	9	SeqNo: 5	5049	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.048	0.9551	0	94.7	67.2	113	1.17	14.3	
Toluene	0.94	0.048	0.9551	0	98.5	62.1	116	1.48	15.9	
Ethylbenzene	0.95	0.048	0.9551	0	99.5	67.9	127	0.241	14.4	
Xylenes, Total	2.8	0.096	2.865	0	99.1	60.6	134	1.87	12.6	
Surr: 4-Bromofluorobenzene	0.89		0.9551		93.0	80	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	W	ork Order Number:	1204095	
Received by/date:	14/03/12			
Logged By: Michelle Garcia	4/3/2012 10:30:00 AM	-m	ichell Cours	
Completed By: Michelle Garcia	4/3/2012 12:05:23 PM	m	while Cours	į
Reviewed By:	04/12/12	·	<i>I</i>	
Chain of Custody	10-(1-			
1. Were seals intact?		Yes 🗌 No 🗍	Not Present ✓	
2. Is Chain of Custody complete?		Yes ☑ No □	Not Present	
How was the sample delivered?		Greyhound		
<u>Log In</u>				
4. Coolers are present? (see 19. for coole	er specific information)	Yes 🗹 No 🗌	NA \square	
5. Was an attempt made to cool the same	ples?	Yes 🗹 No 🗌	NA 🗆	
6. Were all samples received at a temper	ature 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) p		Yes 🗹 No 🗌		
10. Was preservative added to bottles?		Yes 🗌 No 🗹	NA 🗆	
11. VOA vials have zero headspace?		Yes 🗌 No 🗍	No VOA Vials 🗹	
12. Were any sample containers received	proken?	Yes No 🗹		
13. Does paperwork match bottle labels? (Note discrepancies on chain of custod		Yes ☑ No 🗌	# of preserved bottles checked for pH:	
14. Are matrices correctly identified on Cha	in of Custody?	Yes 🗹 No 🗌		or >12 unless noted)
15. Is it clear what analyses were requeste	d ?	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 ards.	Yes 🗌 No 🗌	NA 🗹	•
		Tes NO	NA 🖭	
Person Notified:	Date:	· · · · · · · · · · · · · · · · · · ·		
By Whom:	Vla:	」eMail [_] Phone	Fax In Person	
Regarding: Client Instructions:			· · · · · · · · · · · · · · · · · · ·	<u> </u>
18, Additional remarks:				
10, Additional Territories.				
and a late with				
19. Cooler Information Cooler No Temp °C Condition	Seal Intact Seal No S	eal Date Sign	ned By	
1 2.3 Good	Yes			
	,		•	



