<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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 Fe, NM 87505

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

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

Pit, Closed-Loop System, Below-Grade Tank, or

Proposed Alternative Method Permit or Closure Plan Application					
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method					
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request					
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.					
I.					
Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778					
Address: 380 North Airport Road, Durango, CO 81303					
Facility or well name: BARNES LS 008A					
API Number: 3004522460 OCD Permit Number:					

U/L or Qtr/Qtr Section 26.0 Township 32.0N Range 11W County: San Juan County					
Center of Proposed Design: Latitude 36.953357 Longitude -107.954760 NAD: □1927 ▼ 1983					
Surface Owner: X Federal State Tribal Trust or Indian Allotment					
2. NMOCD					
Pit: Subsection F or G of 19.15.17.11 NMAC					
Temporary: Drilling Workover					
Permanent Emergency Cavitation P&A					
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Oth ☐ ISTRICT					
☐ String-Reinforced					
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D					
3,					
Closed-loop System: Subsection H of 19.15.17.11 NMAC					
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)					
Drying Pad Above Ground Steel Tanks Haul-off Bins Other					
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other					
Liner Seams: Welded Factory Other					
4.					
■ Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: A					
Volume: bbl Type of fluid: Produced Water					
Tank Construction material: Steel					
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off					
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other SINGLE WALLED DOUBLE BOTTOMED					
Liner type: Thicknessmil					
5. Alternative Method:					



Form C-144

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

6.				
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)				
Monuthy inspections (if netting of screening is not physically reasible)				
s. 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.				
10.				
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)	Yes No			
- 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 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 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:				
12.				
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
Previously Approved Design (attach copy of design) API Number:				
Previously Approved Operating and Maintenance Plan API Number:				
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
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)				
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) 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				

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 more than two facilities are required.					
50.000 B (50 B-02) B (50 B-02)	Disposal Facility Permit Number:				
	Disposal Facility Permit Number:				
Will any of the proposed closed-loop system operations and associated activities oc ☐ Yes (If yes, please provide the information below) ☐ No	cur on or in areas that will not be used for future serv	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 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.					
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☐ No ☐ NA			
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					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division					
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 					
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 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation 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): Title:				
Signature: Date:				
e-mail address:Telephone:				
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)				
OCD Representative Signature: Approval Date: 01712019				
Title: Environmente Decelist OCD Permit Number:				
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.				
Closure 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 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?				
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				
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.953357 Longitude -107.954760 NAD: 1927 × 1983				
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): Steve Moskal Title: Field Environmental Coordinator				
Signature:				
e-mail address: steven.moskal@bpx.com Telephone: 505-330-9179				

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):	Title:			
Signature:	Date:			
e-mail address:	Telephone:			

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

State of New Mexico Energy Minerals and Natural Resources Department

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

IT	A	N	K	D	A	
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Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party BP A	America Produ	uction Company	OGRID 7	778		
Contact Nam	e Steve N	Ioskal		Contact Te	Contact Telephone (505) 330-9179		
Contact emai	il Steven.	Moskal@bpx.	com	Incident #	Incident # (assigned by OCD)		
Contact mail	ing address	380 North Air	rport Road, Dura	ngo, CO 813	303		
Location of Release Source							
Latitude	36.	.953357	(NAD 83 in decima	Longitude and degrees to 5 decimal			
Site Name B	ARNES I	LS 008A		Site Type	Natural Gas Well		
Date Release	Discovered			API# (if app	pplicable) 30-045-22460		
Unit Letter	Section	Township	Range	Cour	inty		
I	26	32N	11W	San J	and the second s		
	Materia	l(s) Released (Select a	Nature and V		Release ic justification for the volumes provided below)		
Crude Oil		Volume Release		culations or specific	Volume Recovered (bbls)		
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
		Is the concentra produced water	tion of dissolved chlo >10,000 mg/l?	ride in the	☐ Yes ☐ No		
Condensa	te	Volume Release			Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provide ur	nits)	Volume/Weight Recovered (provide units)		
Cause of Rele	ease TPH,	BTEX, & chl	oride all below be	elow-grade t	tank (BGT) permit closure standards.		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ⊠ No					
If VES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?			
	order given to the GGB. By whom: To wh	on: When and by what means (phone, chan, etc):			
Not required.					
	Initial Ro	esponse			
The responsible p	party must undertake the following actions immediately	vunless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
	s been secured to protect human health and	the environment.			
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.			
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:			
Dor 10 15 20 8 D (4) NIM	AC the responsible mosts may commone w	amodiation immediately after discovery of a release. If remodiation			
has begun, please attach a	a narrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.			
		pest of my knowledge and understand that pursuant to OCD rules and			
		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have			
		at to groundwater, surface water, human health or the environment. In			
addition, OCD 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.					
Printed Name:Steve	Printed Name: Steve Moskal Title: Environmental Coordinator				
Signature:		Date:			
email: Steven.Mosl	kal@bpx.com	Telephone:(505) 330-9179			
OCD Only					
		Deter			
Received by:		Date:			

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Barnes LS # 8A - Tank ID: A

API #: 3004522460

Unit Letter I, Section 26, T32N, R11W

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

General Closure Plan

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
 - Notice is attached.
- 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.

Notice was provided and documented in the attached email.

- 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/or sludge within 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 for recycling.

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
		(mg/Kg)	Results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.080
TPH	US EPA Method SW-846 418.1	100	<48
Chlorides	US EPA Method 300.0 or 4500B	250 or background	41

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 beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits. A field and laboratory reports are 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 reveal no evidence of a release has 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.

Sampling results reveal no evidence of a release has occurred. Area was backfilled with clean, earthen material and is within the active well pad.

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 BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.

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

The BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.

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

The BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.

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

The BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 re-vegetation.

BP will notify NMOCD when re-vegetation is successfully completed.

- 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.

<u>Closure report on C-144 form is included & contains a photo of the reclamation completion.</u>

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.

BP Pit Closure Notification - BARNES LS 8A

From: Naomi Azulai (Naomi.Azulai@BPX.COM) Cory.Smith@state.nm.us; Vanessa.Fields@state.nm.us jeffcblagg@aol.com; blagg_njv@yahoo.com; Steven.Moskal@BPX.COM; matthew.baca@BPX.COM; Patti.Campbell@bpx.com Cc: Date: Tuesday, December 4, 2018, 3:42 PM MST SENT VIA E-MAIL TO: CORY, SMITH@STATE.NM.US; VANESSA.FIELDS@STATE.NM.US December 4, 2018 New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410 Notice of Proposed Below-Grade Tank (BGT) Closure BARNES LS 8A API 30-045-22460 (I) Section 26 - T32N - R11W San Juan County, New Mexico Dear Mr. Cory Smith and Mrs. Vanessa Fields, In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 10, 2018. Should you have any questions, please feel free to contact BP. Sincerely, Naomi Azulai Regulatory Analyst Tel: 970-232-1439

Durango, CO 81301

Naomi.Azulai@bpx.com
1199 Main Ave., Suite 101



BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

December 4, 2018

Bureau of Land Management Whitney Thomas 6251 College, Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: BARNES LS 8A API# - 3004522460

Dear Ms. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about December 10, 2018. Barring any unforeseen issues, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

If witnessing of the tank removal is required, please contact Steve Moskal for a specific time (505)-330-9179.

Sincerely,

Naomi Azulai

Naomi Azulai

BPX - San Juan

Regulatory Analyst

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413	API#: 3004522460
	(505) 632-1199	TANK ID (if applicable):
FIELD REPORT:	PAGE #:1 of1_	
SITE INFORMATION	DATE STARTED: 12/10/18	
QUAD/UNIT: SEC: 26 TWP:	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,500'S / 1,1	50'E NE/SE LEASE TYPE: FEDERAL/ STATE / FEE / INDIAN	- ENVIRONMENTAL
LEASE #: SF078655	PROD. FORMATION: MV CONTRACTOR: BP - J. GONZALES	SPECIALIST(S): NJV
REFERENCE POINT	GL ELEV:: 6,326'	
1) 95 BGT (SW/DB) - A	GPS COORD.: 36.953357 X 107.954760 DISTANCE/BE	ARING FROM W.H.: 88', N8W
2)	GPS COORD.: DISTANCE/BE	EARING FROM W.H.:
3)	GPS COORD.: DISTANCE/BE	EARING FROM W.H.:
4)	GPS COORD.: DISTANCE/BE	ARING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING
	5) - A SAMPLE DATE: 12/10/18 SAMPLETIME: 1333 LAB ANALYSIS: 80	015B/8021B/300.0 (CI) 0.0
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
3) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
	SAMPLE DATE:SAMPLE TIME: LAB ANALYSIS:	
5) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
	OSE FIRM DENSE / VERY DENSE T / SATURATED / SUPER SATURATED OF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION -	/ STIFF / VERY STIFF / HARD
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - D AND/OR OCCURRED: YES NO EXPLANATION: YES NO EXPLANATION - 105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TO ESENT TO WITNESS CONFIRMATION SAMPLING.	ANK TO BE SET ATOP BGT LOCATION.
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA ft. X NA ft. EXCAVATION ES	STIMATION (Cubic Yards) : NA
DEPTH TO GROUNDWATER: > 100'	NEAREST WATER SOURCE: > 1,000' NEAREST SURFACE WATER: 300' < x < 1,000'	,
SITE SKETCH	BGT Located : off / on site PLOT PLAN circle: attached (N	MICALIE DEAD - 404 C nom
		M CALIB. READ. = 101.6 ppm RF = 1.00
	WOODEN N III	ME: <u>1:40</u> am(pm) DATE: <u>12/10/18</u>
	BERM WOODEN R.W. COMPRESSOR	MISCELL. NOTES
(05		SIO #: 190040005402
(95 PBC	TIL X	REF #:
T.B. B.	~5· // -/(X X X // // / /	VID: VHIXONEV11
	PJ#:	
	FENCE	Permit date(s): 04/16/10
		OCD Appr. date(s): 04/03/16
		ank OVM = Organic Vapor Meter ID ppm = parts per million
	TO W.H. ↓	A BGT Sidewalls Visible: Y N
	` X - S.P.D.	BGT Sidewalls Visible: Y / N
	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N
and the second of the second o	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: 10° E
NOTES: GOOGLE EARTH IMAGI	RY DATE: 3/15/2015. ONSITE: 12/10/18	

revised: 11/26/13 BEI1005E-6.SKF

Analytical Report

Lab Order 1812512

Date Reported: 12/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: BARNES LS 8A

Lab ID:

1812512-001

Matrix: SOIL

Client Sample ID: 5PC-TB @ 5' (95)-A

Collection Date: 12/10/2018 1:33:00 PM

Received Date: 12/11/2018 8:15:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	41	30	mg/Kg	20	12/11/2018 1:29:57 PM 42028
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: AG
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	12/11/2018 12:43:37 PM B56250
Surr: BFB	95.8	70-130	%Rec	1	12/11/2018 12:43:37 PM B56250
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/11/2018 12:58:01 PM 42024
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/11/2018 12:58:01 PM 42024
Surr: DNOP	98.0	50.6-138	%Rec	1	12/11/2018 12:58:01 PM 42024
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: AG
Benzene	ND	0.020	mg/Kg	1	12/11/2018 12:43:37 PM A56250
Toluene	ND	0.040	mg/Kg	1	12/11/2018 12:43:37 PM A56250
Ethylbenzene	ND	0.040	mg/Kg	1	12/11/2018 12:43:37 PM A56250
Xylenes, Total	ND	0.080	mg/Kg	1	12/11/2018 12:43:37 PM A56250
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	12/11/2018 12:43:37 PM A56250
Surr: Toluene-d8	103	70-130	%Rec	1	12/11/2018 12:43:37 PM A56250

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 6 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

C	Chain-of-Custody Record					Turn-Around Time:			HALL ENVIRON EN AL															
Client:	BLAG	G ENGR.	/ BP AN	/IERICA		☐ Standard	☑ Rush _	DAY	ANALYSIS LABORATORY															
			TANKS PARAMETERS AND			Project Name			www.hallenvironmental.co							,,,	-							
Mailing A	ddress:	P.O. BO	X 87		***************************************	E	BARNES LS #8A			49	01 F		ins N								9			
		BLOOM	FIELD, NA	M 8741	3	Project #:							15-39						-410					
Phone #:		(505) 63	32-1199											Α	hnal	ysis	Red	lues	t					THE SE
email or F	ax#:					Project Manag	jer:									4)				1)		T	T	
QA/QC Pad Standa			Level 4	l (Full V	/alidation)		STEVE MO	SKAL	(8021B)	is only)	/ MRO)			(S)		PO4,50	2 PCB's			ter - 300.1)			e	
Accreditat	ion:				=	Sampler:	NELSON VI			(Gas	DRO,	1)	(1)	OSIN		102,	8082			/ water			du	
□ NELAP		□ Other				On Ice:	∑ Yes	□ No 97 V	1	+ TPH	-	418.1)	504	827	vs.	03,1	_		(AC	0.00			e Sa	IN)
□ EDD (T	ype)					Sample Temp	erature: [[C 200	1	3E +	(GRO	pou	pou	or	etal	N,N	cide	(A)	i-VC	ii - 3		e e	USOS V	っ
Date	Time	Matrix	Samp	ole Red	quest ID	A 12/11/6 Container Type and # McoHkd	Preservative Type	HEAL No.	BTEX +MH	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0		Grab sample	5 pt. composite sample	AIL DUDDIES
12/10/18	1333	SOIL	5PC - TB	s e 5	′ (95) - A	4 oz 1	Cool	70	V		٧									٧		,	V	
1./ /-	:715				- (1) -								_								_	\perp	-	_
1410113	1312	SOIL	SPC - TE	. @	7 (21)-8	4 02 1	Cool	7002	V		V									V	-	T	V	_
									-	_				-			-	-		-	+	+	+	_
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			<u> </u>							L,														
Date: 12/10/18					Received by: Date Time 12/10/15 1620			Remarks: 8 SIO # WHEN APPLICABLE; CONTACT: STEVE MOSKAL / VANCE HIXON							D									
Date: Time: Relinquished by:				Received by: Date Time VID: VHIXONEV11 SIO #: 190040005402																				
118 11 1	If necessa	ary, samples s	submitted to H	lall Environ	mental may be s	subcontracted to other	accredited laboratorie	es. This serves as notice of	as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.						_									

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID MB-42028

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 42028

RunNo: 56244

Prep Date: 12/11/2018

Sample ID LCS-42028

Analysis Date: 12/11/2018 PQL

SeqNo: 1880206

Units: mg/Kg

%RPD

RPDLimit Qual

Analyte Chloride

Result

ND 1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS 12/11/2018 Batch ID: 42028

PQL

1.5

RunNo: 56244

SeqNo: 1880207

Units: mg/Kg

Prep Date: Analyte

Analysis Date: 12/11/2018

SPK value SPK Ref Val

%REC 0

HighLimit LowLimit 90

%RPD **RPDLimit**

Qual

15.00

95.8

Chloride

14

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range E

J Analyte detected below quantitation limits

Page 3 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID LCS-42024	SampType: LC	S	Test	Code: EP	A Method	8015M/D: Die	sel Rang	Organics	
Client ID: LCSS	Batch ID: 420	024	R	unNo: 56	6237				
Prep Date: 12/11/2018	Analysis Date: 12	2/11/2018	S	eqNo: 18	378763	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 10	50.00	0	97.6	70	130			
Surr: DNOP	4.5	5.000		90.8	50.6	138			
Sample ID MB-42024	SampType: ME	BLK	Test	Code: EF	A Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 420	024	R	unNo: 56	3237				
Prep Date: 12/11/2018	Analysis Date: 12	2/11/2018	S	eqNo: 18	378765	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
I Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.7	10.00		97.2	50.6	138			
Sample ID LCS-42041	SampType: LC	S	Test	Code: EP	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 420	041	R	unNo: 56	5237				
Prep Date: 12/11/2018	Analysis Date: 12	2/12/2018	S	eqNo: 18	381116	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4	5.000		87.7	50.6	138			
Sample ID MB-42041	SampType: ME	BLK	Test	Code: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS	Batch ID: 420	041	R	unNo: 56	3237				
Prep Date: 12/11/2018	Analysis Date: 12	2/12/2018	S	eqNo: 18	381117	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2	10.00		92.0	50.6	138			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering BARNES LS 8A

Project:

Sample ID 100ng Ics	SampT	ype: LC	S	Test	Code: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batch	n ID: A5	6250	R	unNo: 50	6250				
Prep Date:	Analysis D	ate: 12	2/11/2018	S	eqNo: 1	879098	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.4	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.8	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	ID: A5	6250	F	RunNo: 5	6250				
Prep Date:	Analysis D	ate: 12	2/11/2018	S	SeqNo: 1	879102	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS

Batch ID: **B56250**

RunNo: 56250

%REC

91.6

Prep Date:

Analysis Date: 12/11/2018

SeqNo: 1879085

Units: mg/Kg

Result PQL SPK value SPK Ref Val

130

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 460

470

HighLimit LowLimit

RPDLimit Qual

Sample ID 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

%RPD

%RPD

Client ID: LCSS

Batch ID: **B56250**

5.0

500.0

25.00

500.0

RunNo: 56250

Prep Date:

Analyte

Analysis Date: 12/11/2018

SeqNo: 1879610

%REC

Units: mg/Kg

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

Result PQL SPK value SPK Ref Val 26 5.0

0 104 93.6 70 70

LowLimit

70

130 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Num	ber: 1812512		RcptNo:	1
Received By: Anne Thorne	12/11/2018 8:15:00) AM	ann Ha		
Completed By: Anne Thorne	12/11/2018 8:29:35	5 AM	Aone Ha		
Reviewed By:	12/11/18		Come Som		
Labeled by: At 1					
Chain of Custody	2/////8				
Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
2,		<u> </u>			
Log In					
Was an attempt made to cool the sa	imples?	Yes 🗹	No 🗌	NA L	
4. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicate	ed test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗸	No		
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗌	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Viais ✓	
10. Were any sample containers receive	d broken?	Yes	No 🗸		
			9	# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes 🗹	No .	for pH:	12 unless noted)
(Note discrepancies on chain of custom 12. Are matrices correctly identified on C		Yes 🗸	No 🗆	Adjusted?	>12 unless noted)
13. Is it clear what analyses were reques		Yes 🗸	No 🗆		,
14. Were all holding times able to be me		Yes 🗸	No 🗌	Checked by:	
(If no, notify customer for authorization	on.)		L		
Special Handling (if applicable)					
15. Was client notified of all discrepance		Yes	No 🗌	NA 🗹	
Person Notified:	Date	Antienes and an anti-server server se	NATIONAL PARTIES AND PROPERTY.		
By Whom:	Via:	eMail P	hone Fax	n Person	
Regarding:		NEW YORK COLUMN TO SERVICE AND ASSESSMENT THROUGH		CONTROL OF STREET, IN	
Client Instructions:	2 1 20200 0 00000 0				
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition		Seal Date	Signed By		
1 1.1 Good	Yes				



