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 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.			
Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778			
Address: 380 North Airport Road, Durango, CO 81303			
Facility or well name: BARNES 019			
API Number: 3004526801 OCD Permit Number:			
U/L or Qtr/Qtr A Section 26.0 Township 32.0N Range 11W County: San Juan County			
Center of Proposed Design: Latitude 36.960319 Longitude -107.954491 NAD: ☐1927 × 1983			
Surface Owner: 🗷 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment			
2. Pit: Subsection F or G of 19.15.17.11 NMAC NMOCD			
Temporary: Drilling Workover			
Permanent Emergency Cavitation P&A			
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other			
String-Reinforced			
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D			
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			
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: B			
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.			

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify		
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)		
8.		
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 of consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.	
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 19.15.17.11 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:				
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: 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 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 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 Gil 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 G of 19.15.17.13 NMAC				

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.			
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 <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information below) No			
Required for impacted areas which will not be used for future service and operatio Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	e requirements of Subsection H of 19.15.17.13 NMA I of 19.15.17.13 NMAC	С	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	e administrative approval from the appropriate dist. I Bureau office for consideration of approval. Justi	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; Dat	a 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; Dat	a 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; Dat	a 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 - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or s - NM Office of the State Engineer - iWATERS database; Visual inspection	pring, in existence at the time of initial application.	Yes No	
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approv		Yes No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visu	al 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			
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map	y & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No	
Within a 100-year floodplain FEMA map		Yes No	
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying protocols and Procedures - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Confirmation Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	uirements of 19.15.17.10 NMAC f Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 5.17.13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC	15.17.11 NMAC	

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate	te 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	OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
E 110	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Is Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of th section of the form until an approved closure plan has been obtained and the clo	implementing any closure activities and submitting the closure report. e completion of the closure activities. Please do not complete this sure activities have been completed.
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternat If different from approved plan, please explain.	ive Closure Method Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drillit two facilities were utilized. Disposal Facility Name:	ng fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name: Disposal Facility Name:	Disposal Facility Permit Number: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or i ☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No	
Required for impacted areas which will not be used for future service and operatio Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ns:
Closure Report Attachment Checklist: _Instructions: Each of the following item k 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	407.054404
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirements.	
Name (Print):Steve Moskal	Title: Field Environmental Coordinator
Signature: Alm Man	Date: 2/7/2019
e-mail address: steven.moskal@bpx.com	Telephone: 505-330-9179

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
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

Responsible Party BP America Production Company

State of New Mexico Energy Minerals and Natural Resources Department

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

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

OGRID 778

a a.						
Contact Name Steve Moskal			Contact 7	Telephone (505) 330-9179		
Contact email Steven.Moskal@bpx.com			Incident	# (assigned by OCD)		
Contact mailing address 380 North Airport Road, Durang			rango, CO 81	go, CO 81303		
Latitude3	66.960319		of Release S Longitude timal degrees to 5 deci	-107.954491		
Site Name BARNES	5 019		Site Type	Site Type Natural Gas Well		
Date Release Discover	ed		API# (if ap	pplicable) 30-045-26801		
Unit Letter Section	Unit Letter Section Township Range			inty		
	2027	11W	San	Iuan		
A 26 Surface Owner: □ Sta	32N te ⊠ Federal □ T	ribal Private (Λ				
Surface Owner: Sta	te Federal T	ribal ☐ Private (∧ Nature and all that apply and attach	Name:	Release ic justification for the volumes provided below)		
Surface Owner: Sta	te Federal T	Nature and all that apply and attach and (bbls)	Name:	Release ic justification for the volumes provided below) Volume Recovered (bbls)		
Surface Owner: Sta	te Federal T	Nature and all that apply and attach and (bbls) ed (bbls) ution of dissolved ch	Name:	Release ic justification for the volumes provided below)		
Surface Owner: Sta	te Federal T	Nature and all that apply and attach and (bbls) ed (bbls) etion of dissolved ch >10,000 mg/l?	Name:	Release ic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls)		
Surface Owner: Sta Mate Crude Oil Produced Water	te Federal To	Nature and all that apply and attach ded (bbls) ed (bbls) attion of dissolved chelonomy/1? ed (bbls)	Name:	Release ic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) Yes \[\] No		
Surface Owner: Sta	te Federal To	Nature and all that apply and attach ded (bbls) ed (bbls) attion of dissolved chelonomy/1? ed (bbls)	Name: I Volume of calculations or specific	Release ic justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) Yes No Volume Recovered (bbls)		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?	
☐ Yes ⊠ No			
If YES, was immediate no	otice given to the OCD? By whom? To when	nom? When and by what means (phone, email, etc)?	
Not required.			
	Initial R	esponse	
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area has	s been secured to protect human health and	the environment.	
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred	
		please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat 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	e Moskal	Title: Environmental Coordinator	
Signature:		Date:	
		Telephone:(505) 330-9179	
OCD Only			
Received by:		Date:	

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Barnes # 19 - Tank ID: B API#: 3004526801 Unit Letter A, 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.

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.

- 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)
 - 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)
 - BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - 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	< 0.082
TPH	US EPA Method SW-846 418.1	100	<49
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<30

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, nonwaste 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.

<u>Sampling results reveal no evidence of a release has occurred.</u> 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 Close Notification - BARNES 19

From: Naomi Azulai < Naomi.Azulai@BPX.COM>

To: Smith, Cory, EMNRD, Fields, Vanessa, EMNRD (Vanessa. Fields@state.nm.us) **Cc:** jeffcblagg@aol.com, blagg_njv@yahoo.com, Steven Moskal, Patti Campbell

December 6, 2018 at 11:33 AM

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

SENT VIA E-MAIL TO: CORY, SMITH@STATE.NM.US; VANESSA, FIELDS@STATE.NM.US

December 6, 2018

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

BARNES B 019 API 30-045-26801 (A) 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 13, 2018.

Should you have any questions, please feel free to contact BP.

Sincerely,

Naomi Azulai Regulatory Analyst

Tel: 970-232-1439 Naomi.Azulai@bpx.com 1199 Main Ave., Suite 101 Durango, CO 81301

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

bp



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

December 6, 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 19 API# - 3004526801

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 13, 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 #: 3004526801			
	(505) 632-1199	(if applicble):			
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:	PAGE#: 1 of 1			
SITE INFORMATION	J: SITE NAME: BARNES #19	DATE STARTED: 12/13/18			
QUAD/UNIT: A SEC: 26 TWP:	32N RNG: 11W PM: NM CNTY: SJ ST: NM				
1/4 -1/4/FOOTAGE: 1,165'N / 1,1	135'E NE/NE LEASE TYPE: FEDERAL/ STATE / FEE / INDIAN	ENVIRONMENTAL			
LEASE #: SF078039	PROD. FORMATION: PC CONTRACTOR: BP - J. GONZALES	SPECIALIST(S): NJV			
REFERENCE POINT	T: WELL HEAD (W.H.) GPS COORD.: 36.96012 X 107.954				
1) 21 BGT (SW/DB) - B	GPS COORD.: 36.960319 X 107.954491 DISTANCE	/BEARING FROM W.H.: 68', N17E			
2)	GPS COORD.: DISTANCE	/BEARING FROM W.H.:			
3)	GPS COORD.: DISTANCE	/BEARING FROM W.H.:			
4)	GPS COORD.: DISTANCE	/BEARING FROM W.H.:			
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING			
	21) - B SAMPLE DATE: 12/13/18 SAMPLE TIME: 1110 LAB ANALYSIS:	8015B/8021B/300.0 (CI) NA			
	SAMPLE DATE:SAMPLE TIME: LAB ANALYSIS:				
	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:				
SAMPLE ID: SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:				
SOIL DESCRIPTION SOIL COLOR: DARK YE COHESION (ALL OTHERS): NON COHESIVE SLIGHTLE					
CONSISTENCY (NON COHESIVE SOILS): LO					
MOISTURE: DRY SLIGHTLY MOIST MOIST / W SAMPLE TYPE: GRAB (COMPOSITE) :					
DISCOLORATION/STAINING OBSERVED: YES		PLANATION -			
	S: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION -				
	ED AND/OR OCCURRED : YES NO EXPLANATION:				
EQUIPMENT SET OVER RECLAIMED AREA:					
OTHER: NMOCD OR BLM REPS, NOT PI	RESENT TO WITNESS CONFIRMATION SAMPLING.				
EXCAVATION DIMENSION ESTIMATION	: NA ft. X NA ft. X NA ft. EXCAVATION	ESTIMATION (Cubic Yards) : NA			
DEPTH TO GROUNDWATER: > 100'	NEAREST WATER SOURCE: > 1,000' NEAREST SURFACE WATER: 300' < x < 1,000'	O' NMOCD TPH CLOSURE STD: 2,500 ppm			
SITE SKETCH	BGT Located : off / on site PLOT PLAN circle: attached	OVM CALIB. READ. = NA ppm RF = 1.00			
		OVM CALIB. GAS = NA ppm			
	NI I	TIME: NA am/pm DATE: NA			
	T.B. ~8'	MISCELL, NOTES			
F	FENCE B.G. WOODEN				
	R.W.	SIO #: 190040005402			
		REF #: VID: VHIXONEV11			
959	SEPARATORS	PJ#:			
BER	M	AAIABIAA			
	Permit date(s): 11/15/18 OCD Appr. date(s): 01/02/19				
	Tank OVM = Organic Vapor Meter				
	B BGT Sidewalls Visible: (Y) N				
	V SBD	BGT Sidewalls Visible: Y / N			
NOTES: BGT = BELOWLGRADE TANK: F.D. = FYCAVATI	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N			
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEI APPLICABLE OR NOT AVAILABLE; SW - SINGL	LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: 10° E			
NOTES: GOOGLE EARTH IMAG	ERY DATE: 3/15/2015. ONSITE: 12/13/18				

Analytical Report

Lab Order 1812838

Date Reported: 12/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID:

BARNES 19

1812838-001

Matrix: SOIL

Client Sample ID: 5PC-TB @ 8' (21)-B

Collection Date: 12/13/2018 11:10:00 AM

Received Date: 12/14/2018 8:00:00 AM

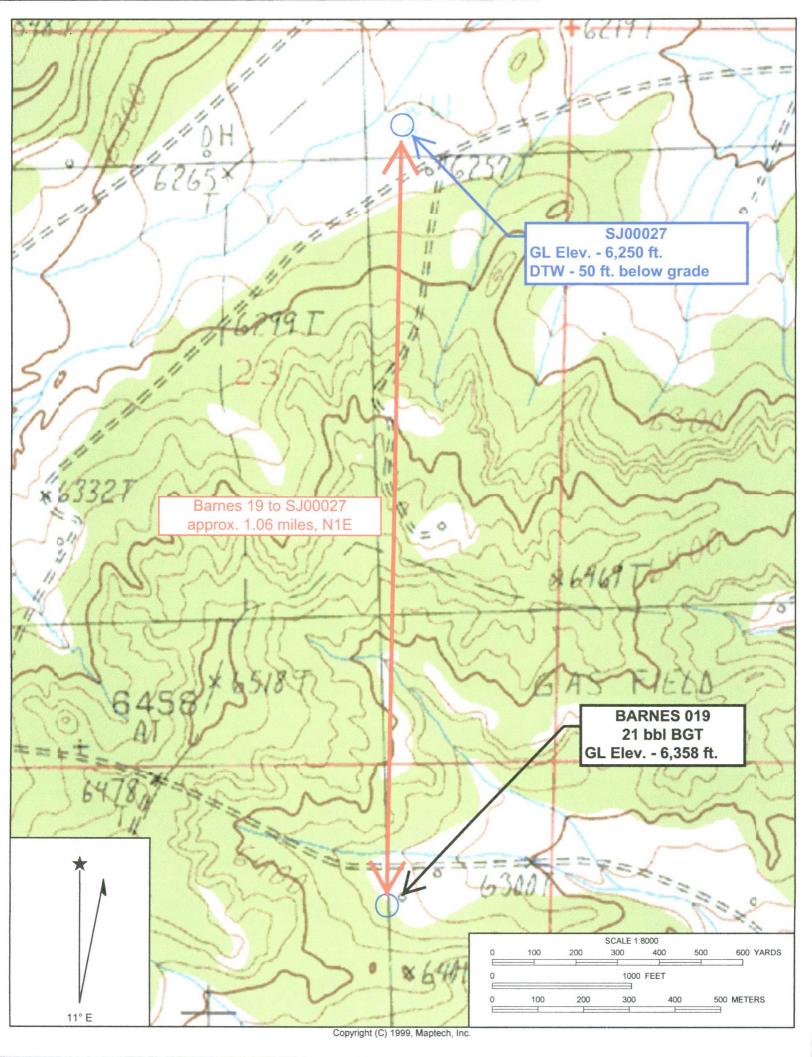
Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	12/14/2018 11:51:31 AM 42115
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/14/2018 9:52:52 AM 42109
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/14/2018 9:52:52 AM 42109
Surr: DNOP	109	50.6-138	%Rec	1	12/14/2018 9:52:52 AM 42109
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	12/14/2018 10:05:13 AM 42100
Surr: BFB	92.7	73.8-119	%Rec	1	12/14/2018 10:05:13 AM 42100
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	12/14/2018 10:05:13 AM 42100
Toluene	ND	0.041	mg/Kg	1	12/14/2018 10:05:13 AM 42100
Ethylbenzene	ND	0.041	mg/Kg	1	12/14/2018 10:05:13 AM 42100
Xylenes, Total	ND	0.082	mg/Kg	1	12/14/2018 10:05:13 AM 42100
Surr: 4-Bromofluorobenzene	97.9	80-120	%Rec	1	12/14/2018 10:05:13 AM 42100

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
- 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
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

CI	hain-d	of-Cus	stody Record	Turn-Around	Time:	SAME					AL		C	RIL	/T1	20	B.III			ГА	
Client: BLAGG ENGR. / BP AMERICA			Standard	☑ Rush ₂	DAY)	HALL ENVIRONMENT ANALYSIS LABORAT															
				Project Name		The same of the sa				•					nme						
Mailing A	ddress:	P.O. BO	X 87		BARNES #	19		49	01 F	lawk								3710	9		
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50	05-3	45-3	975	1	Fax	505	-345	-410)7			
Phone #:		(505) 63	2-1199									A	Anal	ysis	Red	ques	t				
email or F	ax#:			Project Manag	jer:									4				1)		T	T
QA/QC Pad Standa	_		Level 4 (Full Validation)		STEVE MOS	SKAL	WB's (8021B)	only)	MRO)			5)		O4,50	PCB's			er - 300.1)			٥
Accreditat	ion:			Sampler:	NELSON VE	LEZ	¥s (8((Gas	RO/	1)	1)	8270SIMS)		102,1	8082			/ water			sample
□ NELAP)	□ Other		On Ice:	≥ Yes	□ No 97 V	1	TPH	d/c	418.1)	504	827(15	03,1	-		(AC	300.0 /			e Sa
□ EDD (T	ype)			Sample Temp	erature: 2.4 -1.6	(cf) 1.41(1.0-10(cf) 011	+	3E +	(GR(pot	pou	o	etal	CI,N	icide	(A)	i-VC	1		e e	oosit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1812838	BTEX + MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite
12/13/18	iiio	SOIL	5PC-TB@ 8 (21)-B	4 oz 1	Cool	70)	٧		٧									٧			V
Date:	Time:	Relinquishe	hy.	Received by:	Jall	Date Time Date Time			ACT:	& SIC) # WI	HEN A	AL/	CABL				VITH C	ORRES	SPON	IDING V
413/8	1844	J V	William Walls	I C	accordited laboratoria	1011111111	this n		O #:		1900				clear	/ notal	ed on	the an	alutina	renoi	rt





New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Well Drill Dates & Depths)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

(acre ft per annum)

C=the file is closed) Well

qqq

WR File Nbr

Sub

basin Use Diversion County POD Number

Tag Code Grant

Source 64164 Sec Tws Rng

Start Date Finish Date

Depth Depth Well Water

SJ 01327

STK

3 SJ SJ 01327

Shallow 3 2 2 23 32N 11W

237092 4096187* 01/20/1981 02/02/1981

50

Record Count: 1

POD Search:

POD Number: SJ 01327

Sorted by: File Number

SJ01327: 36.975756,-107.954089 or 36 degrees, 58 minutes, 32.72 seconds; 107 degrees, 57 minutes, 17.6 seconds

21 BGT: 36.953402,-107.954895 or 36 degrees, 57 minutes, 12.25 seconds; 107 degrees, 57 minutes, 17.62 seconds

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

SJ 01327

2 2 23 32N 11W

237092 4096187*



Driller License: 724 Driller Company: HARGIS, JOHN C.

Driller Name:

HARGIS, JOHN C.

Drill Start Date: 01/20/1981

Drill Finish Date:

02/02/1981

Plug Date:

Log File Date:

02/13/1981

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 4 GPM

Casing Size:

8.00

Depth Well:

90 feet

Depth Water:

50 feet

Water Bearing Stratifications:

Top Bottom Description

80

90 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

20 80 60 90

SJ00027 water well

GPS Coordinates: 36.975756,-107.954089 or

36 degrees, 58 minutes, 32.72 seconds; 107 degrees, 57 minutes, 17.6 seconds

Approximately 1.06 miles, N1E from Barnes 019 - 21 bbl BGT

SJ00027 GL Elev. - 6,250 ft., DTW - 50 ft., DTW Elev. - 6,200 ft.

Barnes 019 GL Elev. - 6,358 ft., approx. DTW - 158 ft. below grade

Google Earth Imagery date: 3/15/2015



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: SJ 01327

Subbasin: SJ

Cross Reference: -

Primary Purpose: STK

72-12-1 LIVESTOCK WATERING

Primary Status:

PMT

PERMIT

Total Acres:

Subfile:

Total Diversion:

Cause/Case: -

Owner:

Documents on File

Status

From/

Doc

File/Act

Transaction Desc.

To

Acres Diversion Consumptive

226789 72121

1981-01-12

PMT LOG SJ 01327

T

3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number

QQQ

Other Location Desc

SJ 01327

Well Tag Source 6416 4 Sec Tws Rng Shallow 3 2 2 23 32N 11W

237092 4096187*

An () after northing value indicates UTM location was derived from PLSS - see Help

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812838

17-Dec-18

Client:

Blagg Engineering

Project:

BARNES 19

Sample ID MB-42115

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 42115

RunNo: 56356

Prep Date: 12/14/2018 Analysis Date: 12/14/2018 PQL

SeqNo: 1884868

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit Qual

Analyte Chloride

ND 1.5

Sample ID LCS-42115

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 42115

RunNo: 56356

Prep Date: 12/14/2018 Analysis Date: 12/14/2018

SeqNo: 1884869

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val

%REC LowLimit HighLimit

RPDLimit

Qual

Chloride

98.0

110

15

1.5 15.00 0

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

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

В Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 5

P Sample pH Not In Range Reporting Detection Limit

RL

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812838

17-Dec-18

Client:

Blagg Engineering

Project:

BARNES 19

Sample ID	LCS-42109
-----------	-----------

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

LCSS

Batch ID: 42109

RunNo: 56346

0

Prep Date: 12/14/2018

Analysis Date: 12/14/2018 PQL

10

SeqNo: 1883558

Units: mg/Kg

Analyte Range Organics (DRO)

Result 55 SPK value SPK Ref Val 50.00

%REC LowLimit 109

HighLimit

RPDLimit Qual

Surr: DNOP

4.8

5.000

95.6 TestCode: EPA Method 8015M/D: Diesel Range Organics

130 138

%RPD

Sample ID MB-42109 Client ID:

Prep Date:

12/14/2018

SampType: MBLK Batch ID: 42109

Analysis Date: 12/14/2018

RunNo: 56346

70

50.6

Units: mg/Kg

Analyte Range Organics (DRO) Result PQL

SPK value SPK Ref Val

SeqNo: 1883559 %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Motor Oil Range Organics (MRO) Surr: DNOP

ND 10 ND 50 10

10.00

104

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

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812838

17-Dec-18

Client:

Blagg Engineering

Project:

BARNES 19

Sample ID MB-42100

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 42100

RunNo: 56353

Prep Date:

12/13/2018

Analysis Date: 12/14/2018 PQL

SeqNo: 1884432

Units: mg/Kg

Surr: BFB

Result

HighLimit

Analyte

ND

SPK value SPK Ref Val %REC LowLimit

Gasoline Range Organics (GRO)

920

1000

SPK value SPK Ref Val

92.0

73.8

119

RPDLimit Qual

Sample ID LCS-42100

Client ID: LCSS SampType: LCS

Batch ID: 42100

5.0

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 56353

LowLimit

Prep Date: 12/13/2018

Analysis Date: 12/14/2018

SeqNo: 1884434

Units: mg/Kg

HighLimit

%RPD

%RPD

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 25

25.00

%REC 98.2

80.1

123

RPDLimit

5.0 0 1100 1000 106

PQL

73.8 119

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

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812838

17-Dec-18

Client:

Blagg Engineering

Project:

BARNES 19

Sample ID MB-42100	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: 42	100	R	RunNo: 50	6353				
Prep Date: 12/13/2018	Analysis D	Date: 12	2/14/2018	S	SeqNo: 1	884489	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: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			

Sample ID LCS-42100	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 42	100	R	RunNo: 5	6353				
Prep Date: 12/13/2018	Analysis D	ate: 12	2/14/2018	S	SeqNo: 1	884490	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.5	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

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 5

P Sample pH Not In Range

RL Reporting Detection Limit

W 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 Nur	nber: 1812838		RcptNo:	1
Received By:	Isaiah Ortiz	12/14/2018 8:00:0	O AM	I_0	4	
Completed By:	Anne Thorne JAB 12/14/1 Ani A 12/1	12/14/2018 8:12:0	6 AM	am In	_	
Chairman	1	7/10				
Chain of Cus			v	No 🗇	Net Berry	
	ustody complete?		Yes 🗸	No 🗔	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	npt made to cool the same	oles?	Yes 🗸	No 🗌	NA 🗌	
4. Were all same	ples received at a tempera	ature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
	,		,00			
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated t	est(s)?	Yes 🗹	No 🗆		
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗔	_	
8. Was preserva	tive added to bottles?		Yes	No 🗸	NA 🗌	
0 400 delete			v	No []	No VOA VIII -	
	re zero headspace?		Yes 🗌	No 🗔	No VOA Vials ✓	
10. Were any san	nple containers received I	proken?	Yes	No 🔽	# of preserved	
11 Dans paparus	nde market tracked aleba (-0		V	No 🗆	bottles checked	
	ork match bottle labels? ancies on chain of custody	0	Yes 🗸	No 🗔	for pH: (<2 or	>12 unless noted)
	correctly identified on Cha		Yes 🗸	No 🗌	Adjusted?	
	t analyses were requested		Yes 🗹	No 🗌		
	ng times able to be met?		Yes 🗸	No 🗆	Checked by:	
(If no, notify cu	ustomer for authorization.					
Special Handl	ing (if applicable)					
	tified of all discrepancies	with this order?	Yes 🗀	No 🗆	NA 🗸	
Person	Notified:	Date	1	data grant properties of the second states.		
By Who	om:	Via:		hone Fax	In Person	
Regardi		THE CONTRACT OF THE PARTY OF TH		TIOTIC TUX	ENTERIOR DE CONTROL DE	
	nstructions:				AND TO SERVICE AND ADDRESS OF THE PROPERTY OF	
16. Additional rei			MA* MAE. XXXXIIIXXII HARANIA AND AND AND AND AND AND AND AND AND AN	Dimension committee of an	garana marana manana di	
17. Cooler Infor		ally agrees has borner a formation and the	I CERTICINO CHE LA CONTROL DE CON	TELEPTONITE CELEVAL.		
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
11	0 Good	Yes	L			



