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

1 toposed internative Method I climit of Closure I fan 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: BPX ENERGY INC. (formerly BP America Production Co.) OGRID #: 778
Address: 1199 Main Ave., Suite 101, Durango, CO 81301
Facility or well name: WARREN LS 008
API Number: 3004511745 OCD Permit Number:
U/L or Qtr/Qtr M Section 7.0 Township 28.0N Range 08W County: San Juan County
Center of Proposed Design: Latitude 36.670184 Longitude -107.728392 NAD: ☐1927 🗷 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Selow-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: A
5.
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, but institution or church)	nospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
7.	
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. 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 of	office for
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept	table source
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate approval from the approximation appr	oriate district
office 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 dryi	
above-grade tanks associated with a closed-loop system.	□ Vaa □ Na
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).	☐ Yes ☐ No
- 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.	☐ Yes ☐ No ☐ NA
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	∐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No
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	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
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.	□ Vaa □ Na
- 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.	☐ Yes ☐ No
- 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

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: (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 Leak Detection Design - 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 Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 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

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tank	s or Haul-off Bins Only: (19.15.17.13.D N	JMAC)		
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluid facilities are required.				
· 1	acility Permit Number:			
	acility Permit Number:			
Will any of the proposed closed-loop system operations and associated activities occur on or in Yes (If yes, please provide the information below) No	areas that will not be used for future service	e 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 requirement Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.	7.13 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 provided below. Requests regarding changes to certain siting criteria may require administry considered an exception which must be submitted to the Santa Fe Environmental Bureau of demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ative approval from the appropriate district fice for consideration of approval. Justifica	t office or may be		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained for	rom nearby wells	Yes No		
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained for	rom 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 for	rom nearby wells	☐ Yes ☐ No ☐ NA		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant wat lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ercourse or lakebed, sinkhole, or playa	Yes No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	e at the time of initial application.	Yes No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five h watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in exist. NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	istence at the time of initial application.	Yes No		
Within incorporated municipal boundaries or within a defined municipal fresh water well field adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained	-	Yes No		
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	1 (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 Minera		Yes No		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Society; Topographic map	l Resources; USGS; NM Geological	☐ Yes ☐ No		
Within a 100-year floodplain FEMA map		Yes No		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Sicil 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):	
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: 12/2/19
Title: Environmental Specalist	OCD Permit Number: Tank A
	plan prior to implementing any closure activities and submitting the closure report. 60 days of the completion of the closure activities. Please do not complete this
	Closure Completion Date.
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method If different from approved plan, please explain.	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
Instructions: Please indentify the facility or facilities for where the letwo facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities perform Yes (If yes, please demonstrate compliance to the items below) Required for impacted areas which will not be used for future service of Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the famark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	Disposal Facility Permit Number: primed on or in areas that will not be used for future service and operations? No
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-sit 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 36.670184	te closure)Longitude107.728392 NAD: □1927 × 1983
belief. I also certify that the closure complies with all applicable closure	
Name (Print): Erin Dunman Signature: Erin Dunman	Title: Field Environmental Coordinator October 23, 2019
FE49953C960A4BA	Date:
e-mail address: Erin.Dunman@bpx.com	Telephone: 832-609-7048

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:

BPX ENERGY

(formally BP America Production Company) SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Warren LS # 8 – Tank ID: A API #: 3004511745 Unit Letter M, Section 7, T28N, R08W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BPX Energy (BPX) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BPX 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. BPX 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 BPX's NMOCD approved BGT design attached to the BPX Design and Construction Plan. BPX 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 BPX's NMOCD approve BGT Design attached to the BPX Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BPX 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. BPX 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. BPX 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. BPX 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. BPX 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. BPX Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BPX Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BPX Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BPX Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BPX Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - i. BPX Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BPX 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. BPX 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. BPX 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. BPX shall test the soils beneath the BGT to determine whether a release has occurred. BPX 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	< 0.096
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.38
TPH	US EPA Method SW-846 418.1	100	<48
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<60

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.

<u>Soil beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters</u> were below the stated limits. A field and laboratory reports are attached.

7. BPX 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 BPX 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 BPX 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

<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. BPX 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. BPX 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 with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

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 with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

12. BPX 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 with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

13. BPX 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 with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

- 14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BPX shall notify the NMOCD when it has seeded or planted and when it successfully achieves re-vegetation.

 BPX will notify NMOCD when re-vegetation is successfully completed.
- 15. Within 60 days of closure completion, BPX 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 current reclamation</u> requirements completed.

16. BPX 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 – Warren LS 008

From: Patti Campbell (BPX)
To: Smith, Cory, EMNRD

Cc: Sabre Beebe (BPX), Steven Moskal (BPX), Erin Dunman (BPX), Adeloye, Abiodun (BLM), Jefferey Blagg, Nelson Velez,

I1thomas@blm.gov (BLM)

Date: Monday, August 26, 2019 08:56 AM MDT

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US

August 26, 2019

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

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

Warren LS 008
API 30-045-11745
(M) Section 07 – T28N – R08W
San Juan County, New Mexico

Dear Mr. Cory Smith,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around August 29, 2019.

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

Sincerely,

Patti Campbell

Regulatory Analyst
BP America Production Company
BPX Energy Inc.
(970) 712-5997
patti.campbell@bpx.com



RE: BP Pit Closure Notification - Warren LS 008

From: Patti Campbell (BPX)
To: Smith, Cory, EMNRD

Cc: Sabre Beebe (BPX), Steven Moskal (BPX), Erin Dunman (BPX), Adeloye, Abiodun (BLM), Jefferey Blagg, Nelson Velez,

l1thomas@blm.gov (BLM)

Date: Monday, August 26, 2019 08:59 AM MDT

Please note the tanks size is 45bbl not 95bbl.

Patti Campbell

Regulatory Analyst
BP America Production Company
BPX Energy Inc.
(970) 712-5997

patti.campbell@bpx.com



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bp



BP America Production Company 1199 Main Ave., Suite 101 Durango, CO 81303

August 26, 2019

Bureau of Land Management Emmanuel Abiodun Adeloye 6251 College, Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: WARREN LS 008 API# - 3004511745

Dear Mr. Adeloye,

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 August 29, 2019. Barring any unforeseen issues, the work should be completed within 10 working days.

This site has been plugged and abandoned and BP is decommissioning the well site.

If witnessing of the tank removal is required, please contact Steve Moskal on (505)-330-9179 or Erin Dunman on (281) 810-2578 for a specific time.

Sincerely,

Patti Campbell

Patti Campbell BPX – San Juan Regulatory Analyst 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 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

Contact Name Erin Dunman Contact email Erin.Dunman@bpx.com Incident # (assigned by OCD) Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301 Location of Release Source Location of Release Source Longitude		SPA Linergy (former	y BP America Production (Co.) OGRID 7	778
Location of Release Source	Contact Name Eri	n Dunman		Contact T	Telephone (832) 609-7048
Location of Release Source Latitude 36.670184	Contact email Erir	.Dunman@bpx.c	om	Incident #	(assigned by OCD)
Asture and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Crude Oil Volume Recovered (bbls) Volume Recovered (bbls)	Contact mailing add	ress 1199 Main A	ve., Suite 101, D	urango, CO 8	31301
Site Name WARREN LS 008 Site Type Natural Gas Well Date Release Discovered API# (if applicable) 30-045-11745 Unit Letter Section Township Range County M 7 28N 08W San Juan urface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)			Location o	of Release S	ource
Site Name WARREN LS 008 Date Release Discovered API# (if applicable) 30-045-11745 Unit Letter Section Township Range County M 7 28N 08W San Juan Ourface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)	titude	36.670184			
Date Release Discovered API# (if applicable) 30-045-11745 Unit Letter Section Township Range County M 7 28N 08W San Juan urface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)			(NAD 83 in decin	nal degrees to 5 deci	mal places)
Unit Letter Section Township Range County M 7 28N 08W San Juan	ite Name WARR	EN LS 008		Site Type	Natural Gas Well
M 7 28N 08W San Juan Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)	ate Release Discov	ered		API# (if ap	plicable) 30-045-11745
M 7 28N 08W San Juan Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)	II.'4 I . W	T 1.'	D		
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)		•			<u> </u>
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls)					
☐ Produced Water Volume Released (bbls) Volume Recovered (bbls)			Nature and	Volume of 1	Release
				alculations or specific	
Is the concentration of dissolved chloride in the Yes No	Crude Oil	Volume Release	ed (bbls)	alculations or specific	Volume Recovered (bbls)
produced water >10,000 mg/l?	Crude Oil	Volume Release	ed (bbls) ed (bbls)		Volume Recovered (bbls)
Condensate Volume Released (bbls) Volume Recovered (bbls)	Crude Oil Produced Water	Volume Release Volume Release Is the concentrate produced water	ed (bbls) ed (bbls) tion of dissolved chl >10,000 mg/l?		Volume Recovered (bbls) Volume Recovered (bbls) Yes No
□ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)	Crude Oil	Volume Release Volume Release Is the concentrate produced water	ed (bbls) ed (bbls) tion of dissolved chl >10,000 mg/l?		Volume Recovered (bbls) Volume Recovered (bbls)
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide	Crude Oil Produced Water Condensate	Volume Release Volume Release Is the concentra produced water Volume Release	ed (bbls) ed (bbls) tion of dissolved chl >10,000 mg/l? ed (bbls)		Volume Recovered (bbls) Volume Recovered (bbls) Yes No Volume Recovered (bbls)
	Crude Oil Produced Water Condensate Natural Gas	Volume Release Volume Release Is the concentra produced water Volume Release Volume Release	ed (bbls) ed (bbls) tion of dissolved chl >10,000 mg/l? ed (bbls) ed (Mcf)	oride in the	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	

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		
TOTAL 1	d oop p	
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?
Not required.		
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	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	he environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigated to adequately investigated to a second control of the control	required to report and/or file certain release notif ment. The acceptance of a C-141 report by the O ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Erin	Dunman	Title: Field Environmental Coordinator
Signature: Crin Duni	men	October 23, 2019 Date:
	an@bpx.com	Telephone: (832) 609-7048
OCD Only		
Received by:		Date:

CHENT: BPX		SINEERING, INC.	.440	API#: 300451	1745
CLIENT: DI A	P.O. BOX 87, BLC (505)	ЮМГІЕСЬ, NIVI 87 632-1199	413	TANK ID (if applicble):	A
FIELD DEDART	(circle one): BGT CONFIRMATION / RE				
FIELD REPORT:	(circle one). Dot som manation	ELACE INVESTIGATION / STILLS.		PAGE #: 1	of
SITE INFORMATION	J: SITE NAME: WARREN	LS #8		DATE STARTED: 08	/29/19
QUAD/UNIT: M SEC: 7 TWP:		NM CNTY: SJ ST	r: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 600'S / 800"		: FEDERAL / STATE / FEE		ENVIRONMENTAL	
LEASE #: NM03549		KELLEY O.F.S. RACTOR: BPX - S. BEEB			NJV
REFERENCE POINT		ORD.: 36.670183 X ²		GLELEV:	5 7/8'
	GPS COORD.: 36.670			RING FROM W.H.: 24', I	
2)				RING FROM W.H.:	
3)				RING FROM W.H.:	
4)					
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LA		_ DIOTANOL/BEA	AING FROM W.H	OVM READING
1) SAMPLE ID: 5PC - TB @ 6'			801	I5B/8021B/300 0 (CI)	(ppm)
SAMPLE ID:	• •				IVA
3) SAMPLE ID:					
4) SAMPLE ID:					
	SAMPLE DATE:				
SOIL DESCRIPTION		SILTY CLAY / CLAY / GRAVEL / OTH	HER BEDRO	CK (SANDSTONE)	
		STICITY (CLAYS): NON PLASTIC / SLIG			GHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLE CONSISTENCY (NON COHESIVE SOILS): LO		NSITY (COHESIVE CLAYS & SILTS): ODOR DETECTED: YES NO EXPLA			
MOISTURE: DRY SLIGHTLY MOIST MOIST / W		ODON DETECTED. TEO NO EXITER			
SAMPLE TYPE: GRAB COMPOSITE	1 2 2 2 2	AREAS DISPLAYING WETNESS: YE	S NO EXPLAN	NATION -	
DISCOLORATION/STAINING OBSERVED: YES	NO EXPLANATION -				
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVI EQUIPMENT SET OVER RECLAIMED AREA:		ΓΙΟΝ:			
OTHER: NMOCD REP. NOT PRESENT TO	O WITNESS CONFIRMATION SAMPLIN	G. GAS WELL IS PLUGGED 8	& ABANDONE	D (P&A). BEDROCK EXF	POSED
	EATH BGT AT APPROXIMATELY 6.5 F				
EXCAVATION DIMENSION ESTIMATION DEPTH TO GROUNDWATER: 50' < X <100			CAVATION EST <300'	FIMATION (Cubic Yards):	<u>NA</u>
				NMOCD TPH CLOSURE STD	: 100 ppm
SITE SKETCH	BGT Located: off on site	PLOT PLAN circle: a	attached OVM	CALIB. READ. = NA	_ppm RF =1.00
				CALIB. GAS = NA	_ppm
	/ FENCE		N TIME	: NA am/pm DATE: _	NA
n	BGTL		· 「	MISCELL. NO	OTES
T.	B. ~ 6' P&A		P	O#:	
	B.G. (XXX) MARKER	1	A	FE #:	
В	ERM X		<u>s</u>	10#: 1900400076	72
	ENW	FORMER	<u> </u>	L#: 245277	
	FORMER	SEPARATOR UNIT			23/19
co	MPRESSOR	LOCATION	O		26/19 Meter
1	UNIT LOCATION		10	ppm = parts per million	<u>n</u>
			^	BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y	
			S.P.D.	BGT Sidewalls Visible: Y	
	LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT	DESIGNATION; R.W. = RETAINING WALL; N			10°E
NOTES: GOOGLE EARTH IMAG	E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; ERY DATE: 10/5/2019.	<u>DB - DOUBLE BOTTOM.</u> ONSITE: 08/29/19			_

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

Lab Order 1908I13 Date Reported: 9/6/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** 5PC-TB @ 6' (45) WARREN LS 8 Collection Date: 8/29/2019 9:10:00 AM

1908I13-001 Matrix: SOIL Received Date: 8/30/2019 8:00:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	60	mg/Kg	20	8/30/2019 11:36:25 AM	47190
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/30/2019 9:58:03 AM	47188
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2019 9:58:03 AM	47188
Surr: DNOP	106	70-130	%Rec	1	8/30/2019 9:58:03 AM	47188
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	8/30/2019 10:49:27 AM	A62567
Surr: BFB	95.7	77.4-118	%Rec	5	8/30/2019 10:49:27 AM	A62567
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.096	mg/Kg	5	8/30/2019 10:49:27 AM	C62567
Toluene	ND	0.19	mg/Kg	5	8/30/2019 10:49:27 AM	C62567
Ethylbenzene	ND	0.19	mg/Kg	5	8/30/2019 10:49:27 AM	C62567
Xylenes, Total	ND	0.38	mg/Kg	5	8/30/2019 10:49:27 AM	C62567
Surr: 4-Bromofluorobenzene	87.9	80-120	%Rec	5	8/30/2019 10:49:27 AM	C62567

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

Qualifiers:

Project:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η 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
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Chain-of-Custody Record				SAME HALL ENVIRONMENTAL																			
Client: BLAGG ENGR. / BPX ENERGY			Standard Rush DAY ANALYSIS LABORATORY																				
·					Project Name															414	JK	L T	
Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413			┧ ,	WARDEN IC # 0								lenvironmental.com											
			Project #:			4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107																	
Phone #: (505) 632-1199							:	16	:I. J() 5 -54	3-33		naly		_								
email or Fax#:			Project Manag	der:						7		nan,		1 (0 9	ues								
QA/QC Package: Standard Level 4 (Full Validation)		SABRE BEEBE			(8021B)	only)	MRO)			S		04,504)	PCB's			r - 300.1)							
Accreditation:			Sampler:	NELSON V	ELEZ AMBIG	3 (80		_			NS.		ا ₂ 2	8082			water			sample	İ		
□ NELAP □ Other			On ice: XYes Dispo 977			1	+ TPH (Gas	ĬQ/	118.	8	8270SIMS)		Ž,	<u> </u>		₹	0.0			Saf	î		
□ EDD (Type)			Sample Temperature 4.6-0.5 = 4.1			$ \mathbf{I} $	E + 1	GRO	0d 4	0d 5	or 8	tals	킰	ğ	a	Ş	.3 -3		ايو	Site	Yor		
Date	Time	Matrix	Sample i	Request ID	A 08/32/(7 Container Type and # Mortket	Preservative Type	HEAL No. 1908±173	BTEX - MTB	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	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	Air Bubbles (Y or N)
8/29/19	0910	SOIL	5PC - TB @	6 (45)	_	Cool	-201	√	_	v	•	_	_				~		<u>v</u>	1	- -	v	_
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Date:	Time:	Relinquish	ed by:		Received by:		Date Time	Rem	arks		BUL DI	IRECT	IVTO	BDV I	ISING	THE	CONT	TACT/S	S) DEL	<u></u>	O DE	IIVED	ED.
Date: Time: Relinquished by:		anist	Miste Wach 8/29/19 1442			Remarks: BILL DIRECTLY TO BPX USING THE CONTACT(S) BELOW. PO DELIVERED VIA EMAIL OR IS PENDING. CONTACT: SABRE BEEBE / ERIN DUNMAN																	
Date: Time: Relinquished by: 829/19 1757 Chust Waller			Received by: Date Time 08(3419																				
	If necessa	ry, samples s	ubmitted to Hall En	vironmental may be	subcontracted to other	accredited laboratorie	es. This serves as notice of	this po	ssibili	tv. An	v sub-c	contrac	cted da	ata wil	l be ck	early i	notate	ed on t	he ana	lytical	report.		

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I13**

06-Sep-19

Client: Blagg Engineering
Project: WARREN LS 8

Sample ID: MB-47910 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47190 RunNo: 62558

Prep Date: 8/30/2019 Analysis Date: 8/30/2019 SeqNo: 2129733 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 4.5

Sample ID: LCS-47910 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 47190 RunNo: 62558

Prep Date: 8/30/2019 Analysis Date: 8/30/2019 SeqNo: 2129734 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 4.5 15.00 0 93.2 90 110

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

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

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1908I13 06-Sep-19

Client: Blagg Engineering
Project: WARREN LS 8

Sample ID: LCS-47188 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 47188 RunNo: 62550

Prep Date: 8/30/2019 Analysis Date: 8/30/2019 SeqNo: 2128322 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 0 53 50.00 106 63.9 124

Surr: DNOP 5.0 5.000 99.5 70 130

Sample ID: MB-47188 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 47188 RunNo: 62550

Prep Date: 8/30/2019 Analysis Date: 8/30/2019 SeqNo: 2128323 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 106 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

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I13**

06-Sep-19

Client: Blagg Engineering
Project: WARREN LS 8

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: A62567 RunNo: 62567

Prep Date: Analysis Date: 8/30/2019 SeqNo: 2128957 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 95.4 77.4 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A62567 RunNo: 62567

Prep Date: Analysis Date: 8/30/2019 SeqNo: 2128958 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 80 25 5.0 25.00 0 101 120 Surr: BFB 1100 1000 77.4 113 118

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

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I13**

06-Sep-19

Client: Blagg Engineering
Project: WARREN LS 8

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: C62567 RunNo: 62567

Prep Date: Analysis Date: 8/30/2019 SeqNo: 2128984 Units: mg/Kg

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 0.90 1.000 89.9 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: C62567 RunNo: 62567

Prep Date:	Analysis Date: 8/30/2019		\$	SeqNo: 2128985 Units: m			g/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.025	1.000	0	95.5	80	120				
Toluene	0.97	0.050	1.000	0	97.0	80	120				
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120				
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120				
Surr: 4-Bromofluorobenzene	0.98		1.000		97.8	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

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	BLAGG	Work Order Number:	1908113	3	RcptNo	1
Received By:	Anne Thorne	8/30/2019 8:00:00 AM		1 1	,	
Completed By:	Anne Thorne	8/30/2019 8:10:35 AM		Aon Il. Aon Il.		
				Clare St.		
Reviewed By:	<u> </u>	8/10/19				
Chain of Cus	tody					
1. Is Chain of Co	ustody complete?		Yes 🛂	No 🗌	Not Present	
2 How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attern	pt made to cool the	samples?	Yes 🗹	No □	NA 🗆	
4. Were all samp	oles received at a te	mperature of >0° C to 6.0°C	Yes 🔽	No 🗆	na 🗆	
5. Sample(s) in [proper container(s)?		Yes 🗹	No □		
6. Sufficient sam	ple volume for indic	rated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ON	(G) properly preserved?	Yes 🗹	No 🗆		
8. Was preserva	tive added to bottles	s?	Yes 🗌	No 🗹	NA \square	
9. VOA vials have	e zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
10, Were any sarr	nple containers rece	eived broken?	Yes	No 🗹	# of preserved	
	ork match bottle labe incles on chain of c		Yes 🔽	No 🗌	bottles checked for pH: (<2 or	>12 unless noted)
			Yes 🗹	No 🗌	Adjusted?	
13, Is it clear what	analyses were requ	uested?	Yes 🗹	No 🗌		A 61
	ng times able to be i ustorner for authoriz		Yes 🗹	No 🗌	Checked by:	X 08/3019
	<u>ing (</u> if applicab	,				
		ncies with this order?	Yes _	No 🗀	NA 🗸	
Person	Notified:	Date				
By Who	m;	Via:	eMail	☐ Phone ☐ Fax	in Person	
Regardi	ng:					
Client In	structions:					
16. Additional ren	narks:					
17. Cooler Inform						
Cooler No	entiralisti in interioristi in interioristi in interioristi in interioristi in interioristi in interioristi in		eal Date	Signed By	and the second s	
<u> </u>	4.1 Good	Yes				

WARREN LS 008



