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-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

Proposed Alternative Method Permit or Closure Plan Application
Type of action:  Below grade tank registration  Permit of a pit or proposed alternative method  Closure of a pit, below-grade tank, or proposed alternative method  Modification to an existing permit/or registration  Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, 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 Address: 200 Energy Court, Farmington, NM 87401
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: STATE COM LL 013
API Number: 3004511776 OCD Permit Number:
U/L or Qtr/Qtr L Section 32 Township 30N Range 09W County: San Juan
Center of Proposed Design: Latitude 36.76583 Longitude -107.80920 NAD83
Surface Owner:   Federal   State   Private   Tribal Trust or Indian Allotment
☐ Pit:       Subsection F, G or J of 19.15.17.11 NMAC         Temporary:       ☐ Drilling       ☐ Workover         ☐ Permanent       ☐ Emergency       ☐ Cavitation       ☐ P&A       ☐ Multi-Well Fluid Management       ☐ Low Chloride Drilling Fluid       ☐ yes ☐ no         ☐ Lined       ☐ Unlined       ☐ Liner type:       Thickness ☐ mil       ☐ LLDPE       ☐ HDPE       ☐ PVC       ☐ Other         ☐ String-Reinforced       ☐ Liner Seams:       ☐ Welded       ☐ Factory       ☐ Other       ☐ Volume:       ☐ bbl       Dimensions:       ☐ x W x D     TANK A  Volume:  21
Secondary containment with leak detection   Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner   Visible sidewalls only   Other   Single wall/ Double bottom; sidewalls not visible   Liner type: Thickness   mil   HDPE   PVC   Other   Other
4.  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)	
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	
<ul> <li>8.</li> <li>Variances and Exceptions:</li> <li>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li>Please check a box if one or more of the following is requested, if not leave blank:         <ul> <li>□ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>□ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul> </li> </ul>	
9. 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 acceptate are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  -   NM Office of the State Engineer - iWATERS database search;   Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Yes No
Yes No
Yes 🗌 No
Yes No
Yes No
Yes No
Yes No
Yes 🗌 No
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7.9 NMAC
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Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached.  ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  ☐ Climatological Factors Assessment  ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  ☐ Quality Control/Quality Assurance Construction and Installation Plan  ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan  ☐ Emergency Response Plan  ☐ Oil Field Waste Stream Characterization  ☐ Monitoring and Inspection Plan  ☐ Erosion Control Plan  ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
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	
14. 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 C of 19.15.17.13 NMAC  □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa 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.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ Vaa □ Na
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	☐ 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									
<ul> <li>Vithin an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>										
Within a 100-year floodplain FEMA map										
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  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 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 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 beli	ef.									
Name (Print): Title:										
Signature: Date:										
Signature										
e-mail address: Telephone:										
	/1/18									
e-mail address:    Telephone:										
e-mail address:    Telephone:	complete this									

Operator Closure Certification:	
The first property of the contract of the cont	ith this closure report is true, accurate and complete to the best of my knowledge and closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
erin garifalos	lura 1 0010
Signature:	Date: June 1, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

#### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

#### STATE COM LL 013 API No. 3004511776

Unit Letter L Section 32 T 30N R 09W

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**

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

#### Notice is attached.

2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

#### Notice was provided and is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
  - c. Basin Disposal, Permit NM-01-0005 (Liquids)
  - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
  - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

#### The BGT was transported 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
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.074
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
Chlorides	US EPA Method 300.0 or 4500B	620	<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 under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report 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 indicate a release has not occurred. Attached is a laboratory report and C-141.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and 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 area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and 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 area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and 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 area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

- 14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.
  - The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.
- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
  - a. proof of closure notification (surface owner and NMOCD)
  - b. sampling analytical reports; information required by 19.15.17 NMAC;
  - c. disposal facility name and permit number
  - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
  - e. site reclamation, photo documentation.

Closure report on C-144 form is included including photos of reclamation completion.

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.

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

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Relea	ise Notific	eatior	i and Co	orrective A	ction	1						
						<b>OPERA</b>	ГOR		Initia	al Report		Final Report			
Name of Co	mpany BF	America	Production	on Compan	/	Contact Erin Garifalos									
Address 200	) Energy	Court, Fa	rmington	, NM 87401		Telephone No. (832) 609-7048									
Facility Nan	ne STATI	E COM LL	013			Facility Type: Natural Gas Well									
Surface Ow	ner: State	е		Mineral C	wner:	State			API No	.300451	1776				
				LOCA	TIOI	OF RE	LEASE								
Unit Letter															
L	32	30N	09W	1,650	Sou	ıth	S	an	Juan						
Latitude 36.76583 Longitude -107.80920 NAD83															
				NAT	URE	OF REL	EASE								
Type of Relea		)					Release:: unkn		Volume R	decovered::	N/A				
Source of Re	ease: belo	w grade ta	nk - 21 bl	ol			Iour of Occurrence	ce:		Hour of Disc	covery:				
Was Immedia						n/a If YES, To	Whom?		n/a						
,, 40 ,,,,,,,			Yes 🗸	No Not Re	equired										
By Whom?						Date and F									
Was a Water	course Read		Yes 🗸	No		If YES, Vo	olume Impacting t	the Wat	ercourse.						
If a Watercou	rse was Im	nacted Descr	ibe Fully *												
Describe Cau	se of Probl	em and Reme	dial Action	Samp Soil a	analys	is resulte	beneath the	des, E	TEX, an	d TPH b	elow	BGT			
					re sta	ndards. r	Field reports	and	aborator	y results	are a	allached.			
Describe Area				No actio remedia	actio	n is requ									
regulations al public health should their o or the environ	I operators or the envir perations h ment. In a	are required to ronment. The lave failed to a	o report and acceptance adequately in OCD accepta	or file certain rof a C-141 report of a C-141 report	elease no ort by the emediate	otifications as NMOCD m contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of	etive act eport" of eat to g	ions for rele loes not reli- round water	eases which is eve the oper- , surface was	may end ator of l ter, hun	danger liability nan health			
		Λ					OIL CON	SERV	ATION	DIVISIO	N				
Signature:															
Printed Name	Erin G	arifalos			1	Approved by	Environmental S	pecialis							
Title: Field				dinator	1	Approval Dat	e:		Expiration I	Date:					
E-mail Addre	ss: erin.	garifalos	@bp.c	om		Conditions of	Approval:			Attached					
Date: June	1, 2018		Phone: (	832) 609-70	)48										

<sup>\*</sup> Attach Additional Sheets If Necessary

# bp



380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

March 26, 2018

State Land Office Brandon Foley PO Box 3170 Farmington, NM 87402

#### VIA EMAIL

Re: Notification of plans to close/remove a below grade tank

Well Name: STATE COM LL 013

API #: 3004511776

Dear Mr. Foley,

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 March 30, 2018. If there aren't any unforeseen problems, 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 me for a specific time (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

From: Buckley, Farrah (CH2M HILL)

To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)

Cc: jeffcblagq@aol.com; blagg\_njv@yahoo.com; Garifalos, Erin

Subject: BP Pit Close Notification - STATE COM LL 013

**Date:** Monday, March 26, 2018 4:02:32 PM

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

# SENT VIA E-MAIL TO: <u>CORY.SMITH@STATE.NM.US</u>; <u>VANESSA.FIELDS@STATE.NM.US</u>

March 26, 2018

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

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

STATE COM LL 013 API 30-045-11776 (L) Section 32 – T30N – R09W 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 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around March 30, 2018.

Should you have any questions, please feel free to contact BP at our Durango office.

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan

Cell: 832-609-7048

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CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199									
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / O	THER:	PAGE#: <b>1</b>	of <b>1</b>					
SITE INFORMATION	SITE NAME: STATE	COM LL #13		DATE STARTED: 0	3/29/18					
QUAD/UNIT: L SEC: 32 TWP:	30N RNG: 9W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:						
1/4 -1/4/FOOTAGE: 1,650'S / 990	D'W NW/SW LEASET	TYPE: FEDERAL STATE	FEE / INDIAN	ENVIRONMENTAL						
LEASE#:		STRIKE ONTRACTOR: BP-J.GO			NJV					
REFERENCE POINT		36.7657		GL ELEV.:	5.759'					
1) 21 BGT (SW/DB)	GPS COORD.: 36			RING FROM W.H.: 44',						
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:						
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:						
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:						
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0	OR LAB USED: HALL			OVM READING					
1) SAMPLE ID: 5PC - TB @ 7'	(21) SAMPLE DATE: 03/29	9/18 SAMPLE TIME: 1130	LAB ANALYSIS: 80°	15B/8021B/300.0 (CI)	(ppm)					
2) SAMPLE ID:			LAB ANALYSIS:							
SAMPLE ID:      SAMPLE ID:	SAMPLE DATE:SAMPLE DATE:		LAB ANALYSIS:							
5) SAMPLE ID:		SAMPLE TIME:								
SOIL DESCRIPTION	· CONTYPE CAND CHTY CAND		I /OTHER							
SOIL COLOR: DARK YEL  COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY  CONSISTENCY (NON COHESIVE SOILS): LC  MOISTURE: DRY (SLIGHTLY MOIST) MOIST / W  SAMPLE TYPE: GRAB (COMPOSITE) #  DISCOLORATION/STAINING OBSERVED: YES   N	DOSE   FIRM   DENSE / VERY DENSE   DENSE   VERY DENSE   DET / SATURATED   SUPER SATURATED   DENSE   DE	PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO ANY AREAS DISPLAYING WETNES	SILTS): SOFT / FIRM / EXPLANATION -	STIFF / VERY STIFF / HARD						
SITE OBSERVATION  APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:  OTHER: NMOCD REP. NOT PRESENT TO	LOST INTEGRITY OF EQUIPMENT D AND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION -	ANATION:								
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA					
DEPTH TO GROUNDWATER: >100' N	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<1,000' NMOC	D TPH CLOSURE STD:	1,000 ppm					
SITE SKETCH	BGT Located: off on sit	e PLOT PLAN circ	le: attached OVM	CALIB. READ. = NA	_ppm RF =1.00					
AE	PBGTL T.B. ~7' B.G.	- FENCE BERM	N TIME	MISCELL. NO /O: EF#: P-945 ID: VHIXONEV	11					
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW-SINGLE	W.H.  ON DEPRESSION; B.G. = BELOW GRADE; B = B  OW-GRADE TANK LOCATION; SPD = SAMPLE F	ELOW; T.H. = TEST HOLE; ~= APPROX.; \ POINT DESIGNATION; R.W. = RETAINING	O Tar I.C. A WH. = WELL HEAD;	CD Appr. date(s): 03  No	on ' / N					
NOTES: GOOGLE EARTH IMAGE		ONSITE: 03/29/1	18							

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

#### **Analytical Report**

#### Lab Order 1803G10

Date Reported: 4/4/2018

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB@7'(21)

Project:

State Com LL 13

Collection Date: 3/29/2018 11:30:00 AM

**Lab ID:** 1803G10-001

Matrix: MEOH (SOIL) Received Date: 3/30/2018 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	30	mg/Kg	20	3/30/2018 12:27:16 PM	37342
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	3/30/2018 10:14:48 AM	M50207
Surr: BFB	122	70-130	%Rec	1	3/30/2018 10:14:48 AM	M50207
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/30/2018 9:49:58 AM	37338
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/30/2018 9:49:58 AM	37338
Surr: DNOP	81.6	70-130	%Rec	1	3/30/2018 9:49:58 AM	37338
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	AG
Benzene	ND	0.019	mg/Kg	1	3/30/2018 10:14:48 AM	S50207
Toluene	ND	0.037	mg/Kg	1	3/30/2018 10:14:48 AM	S50207
Ethylbenzene	ND	0.037	mg/Kg	1	3/30/2018 10:14:48 AM	S50207
Xylenes, Total	ND	0.074	mg/Kg	1	3/30/2018 10:14:48 AM	S50207
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	3/30/2018 10:14:48 AM	S50207
Surr: Toluene-d8	90.6	70-130	%Rec	1	3/30/2018 10:14:48 AM	S50207

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CI	hain-d	of-Cus	stody Record	Turn-Around T	ime:	SAME		NI .			A		F	M	/TE	20	P.I P	WIE	NI-	FA		
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush	DAY	HALL ENVIRONMENTA ANALYSIS LABORATO															
				Project Name:							ww	w.ha	illen	viro	nme	ntal	.com	1				
Mailing A	ddress:	P.O. BO	X 87	STA	ATE COM L	L # 13		49	01 H	lawk	ins I	NE -	Alt	uqu	erqu	ue, N	M 8	710	9			
BLOOMFIELD, NM 87413			Project #:				Τe	el. 50	)5-34	45-3	975		Fax	505	345	-410	7					
Phone #:		(505) 63	2-1199	1						7		1	Anal	ysis	Rec	ues	it					mg.
email or F	ax#_			Project Manag	jer.									-				1)				
QA/QC Pad	-	_	Level 4 (Full Validation)		ERIN GARI	FALOS	WB- (8021B)	(Aluo	MRO)			(5)		05,50	PCB's			er - 300.1)			riu	
Accreditat	ion.			Sampler:	NELSON V	ELEZ	18)	Gas	RO/	17	1)	S(M		02,6	3082			was			mpl	
O NELAP		☐ Other		On Ice:	Ø Yes	□ No 977	1	FPH	0/0	118	504.	3270		N, 60	3/8		(%)	0.00			e sa	Z
□ EDD (1	ype)			Sample Temp	erature: z.o-	0.1(cf) = 1.9	1	E +	GRC	po	pol	07.8	tals	N.	cide	(A	-VC	11 - 3(		0	osit	70
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1803G10	BTEX +MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water-		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
3/29/18	1130	SOIL	5PC - TB @ 7 (21)	4 02 1	Cool	-001	٧		٧									٧			٧	
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																_				_		
-	-	D #		De sei ad ben		Potts Time	Dam	- when							_							
3/29/18	Time:	Relinquish	he Vj	Received by:	alx	Date Time 124/18 / 650		ONT		& REI	FEREN	ICE #	WHE	N APP	LICAR	ILE:	N ACT W	VITH (	ORRE	SPON	IDING	VID
Date:	Time:	Relinguish	w	Received by:		Date Time	1			VHD												
3/29/18	1748	1-10	West Wall	Spel C	- 103/3	30/18 0800	Ref	eren	ice#		P -	945	_									

# **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

**RPDLimit** 

1803G10

04-Apr-18

Client:

Blagg Engineering

Project:

State Com LL 13

Sample ID MB-37342

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

**PBS** 

Batch ID: 37342

RunNo: 50211

HighLimit

Prep Date:

3/30/2018

Analysis Date: 3/30/2018

SeqNo: 1627600

Units: mg/Kg

Qual

Qual

Analyte Chloride

Result PQL 1.5 ND

Sample ID LCS-37342

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 37342

RunNo: 50211

Prep Date: 3/30/2018

SeqNo: 1627601

Units: mg/Kg

Analyte

Analysis Date: 3/30/2018

1.5

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

0

%RPD HighLimit **RPDLimit** 

%RPD

Chloride

Result PQL

14

15.00

95.2

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н 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

Page 2 of 6

# **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1803G10

04-Apr-18

Client: Project: Blagg Engineering

Sample ID MB-37338

State Com LL 13

Client ID:

SampType: MBLK

Result

SPK value SPK Ref Val %REC

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

PBS

Batch ID: 37338

RunNo: 50205

Prep Date:

3/30/2018

Analysis Date: 3/30/2018 PQL

SeqNo: 1626108

LowLimit

70

70

70

Units: mg/Kg HighLimit

**RPDLimit** 

Analyte

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) ND 10 ND 50 8.0

10.00

SPK value SPK Ref Val

SPK Ref Val

0

50.00

5.000

SPK value

49.80

4.980

49.36

4.936

SPK value SPK Ref Val

80.1

130

Qual

Surr: DNOP

Sample ID LCS-37338 Client ID: LCSS

SampType: LCS Batch ID: 37338 TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 50205

%REC

104

74.2

130

130

Prep Date: 3/30/2018 Analysis Date: 3/30/2018

Result

52

3.7

SeqNo: 1626109

Units: mg/Kg

LowLimit HighLimit

%RPD **RPDLimit** Qual

Analyte Diesel Range Organics (DRO) Surr: DNOP

Sample ID 1803G10-001AMS

SampType: MS

PQL

10

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

%RPD

Client ID:

5PC-TB@7'(21)

Batch ID: 37338

RunNo: 50205

Analyte Diesel Range Organics (DRO)

Prep Date:

3/30/2018

5PC-TB@7'(21)

3/30/2018

Analysis Date: 3/30/2018 PQL

10

9.9

SeqNo: 1626373 %REC

95.4

78.8

Units: mg/Kg HighLimit

**RPDLimit** 

Qual

Qual

Surr: DNOP

Sample ID Client ID:

1803G10-001AMSD

Result

48

3.9

SampType: MSD Batch ID: 37338

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 50205

Units: mg/Kg

125

130

125

130

%RPD

0

Prep Date: Analyte Diesel Range Organics (DRO)

Surr: DNOP

PQL Result

51

4.1

Analysis Date: 3/30/2018

SeqNo: 1626374 %REC

103

83.9

55.8

70

LowLimit

LowLimit

55.8

70

HighLimit

%RPD

**RPDLimit** 

7.18 20 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

**PQL** Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 3 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1803G10

04-Apr-18

Client:

Blagg Engineering

Project

State Com I I 13

Project:	State Con	n LL 13										
Sample ID	100ng lcs	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID:	BatchQC	Batch ID: \$50207				RunNo: <b>50207</b>						
Prep Date:		Analysis D	Date: 3/	30/2018	0/2018 SeqNo: 1626291 Units: mg/Kg				(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		1.0	0.025	1.000	0	102	80	120				
Toluene		0.95	0.050	1.000	0	95.0	80	120				
Ethylbenzene		1.0	0.050	1.000	0	101	80	120				
Xylenes, Total		3.0	0.10	3.000	0	98.3	80	120				
Surr: 4-Bron	nofluorobenzene	0.47		0.5000		93.4	70	130				
Surr: Toluen	e-d8	0.48		0.5000		95.2	70	130				
Sample ID	rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID:	PBS	Batch	n ID: <b>S5</b>	0207	F	RunNo: 5	0207					
Prep Date:		Analysis D	Date: 3/	30/2018	5	SeqNo: 1	626295	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual	
Benzene		ND	0.025									
Toluene		ND	0.050									
Ethylbenzene		ND	0.050									
Xylenes, Total		ND	0.10									
Surr: 4-Bron	nofluorobenzene	0.52		0.5000		104	70	130				
Surr: Toluen	e-d8	0.43		0.5000		85.4	70	130				
Sample ID	1803G10-001AMS	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID:	5PC-TB@7'(21)	Batch	n ID: <b>S5</b>	0207	F	RunNo: 5	0207					
Prep Date:		Analysis D	)ate: 3/	30/2018	5	SeqNo: 1	626857	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.67	0.019	0.7424	0	89.9	80	120				
Toluene		0.68	0.037	0.7424	0	92.0	80	120				
Ethylbenzene		0.76	0.037	0.7424	0.003348	101	80	120				
Xylenes, Total		2.2	0.074	2.227	0.01887	96.7	80	120				
Surr: 4-Bron	nofluorobenzene	0.36		0.3712		98.3	70	130				
Surr: Toluen	e-d8	0.33		0.3712		88.8	70	130				
Sample ID	1803G10-001AMS	<b>D</b> SampT	ype: MS	SD4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID:	5PC-TB@7'(21)	Batch	n ID: <b>S5</b>	0207	F	RunNo: 5	0207					
Prep Date:		Analysis D	Date: 3/	30/2018	5	SeqNo: 1	626859	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.69	0.019	0.7424	0	93.2	80	120	3.62	0		
Toluene		0.71	0.037	0.7424	0	95.5	80	120	3.78	0		
Ethylbenzene		0.73	0.037	0.7424	0.003348	98.4	80	120	2.89	0		
Xylenes, Total		2.3	0.074	2.227	0.01887	102	80	120	5.15	0		

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range

Analyte detected below quantitation limits J

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1803G10

04-Apr-18

Client:

Blagg Engineering

Project:

State Com LL 13

oumpions 1000

Sample ID 1803G10-001AMSD SampType: MSD4

TestCode: EPA Method 8260B: Volatiles Short List

Client ID: 5P

Prep Date:

5PC-TB@7'(21)

Batch ID: **\$50207**Analysis Date: **3/30/2018** 

RunNo: 50207

SeqNo: 1626859

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.39		0.3712		105	70	130	0	0	
Surr: Toluene-d8	0.35		0.3712		95.0	70	130	0	0	

#### 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 Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 6

## **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1803G10

04-Apr-18

Client: Project:

Client ID:

Client ID:

Prep Date:

Blagg Engineering State Com LL 13

Sample ID 2.5ug gro Ics LCSS

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Batch ID: M50207

RunNo: 50207

Units: mg/Kg

Prep Date:

Analysis Date: 3/30/2018

SeqNo: 1626288

HighLimit %RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit 26 70 Gasoline Range Organics (GRO) 5.0 25.00 104 130 70 130 480 500.0 96.6

Surr: BFB Sample ID rb

SampType: MBLK Batch ID: M50207 TestCode: EPA Method 8015D Mod: Gasoline Range

70

RunNo: 50207

Analysis Date: 3/30/2018

SeqNo: 1626289

Units: mg/Kg

**RPDLimit** 

Qual

Qual

Analyte Gasoline Range Organics (GRO) Result PQL ND 5.0

SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD **RPDLimit** 

Surr: BFB

510

500.0

371.2

103

SeqNo: 1626836

130

Sample ID 1803G10-001AMSD

Client ID:

Prep Date:

Result

17

390

SampType: MSD Batch ID: M50207

Analysis Date: 3/30/2018

TestCode: EPA Method 8015D Mod: Gasoline Range RunNo: 50207

Units: mg/Kg

130

Analyte Gasoline Range Organics (GRO)

5PC-TB@7'(21)

PQL

SPK value SPK Ref Val 18.56 0

%REC LowLimit 94.2 64 7

HighLimit 142

%RPD

**RPDLimit** 

Qual 5.01 20 0

Sample ID 1803g10-001ams

Surr: BFB

SampType: MS

370

TestCode: EPA Method 8015D Mod: Gasoline Range

70

64 7

70

Client ID: Prep Date:

5PC-TB@7'(21)

Batch ID: M50207

Analysis Date: 3/30/2018

37

RunNo: 50207

99.0

101

106

SeqNo: 1626837

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result PQL 18 3.7 SPK value SPK Ref Val 18.56

371.2

%REC

LowLimit

HighLimit 142 130 %RPD **RPDLimit** 

Qualifiers:

Value exceeds Maximum Contaminant Level

Sample Diluted Due to Matrix D

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 S

Analyte detected in the associated Method Blank

Value above quantitation range E

Analyte detected below quantitation limits

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Alloguerque, NM 87109 FEL: 505-345-3975 FAX: 505-345-4107

Website www.halljoveronmental.com

# Sample Log-In Check List

Client Name	BLAGG	Work Order Number:	1803G10		RoptNo: 1		
Received By: Completed By Reviewed By	Sophia Campuzano Erin Melendrez	3/30/2018 8:00:00 AM 3/30/2018 8:17:11 AM 3/30/2018 3:17:11 AM	2	una.	o By.	mw 3 30/18	
	tiody ustody complete? sample delivered?		Yes 🔽	Ng 🗀	Not Present		
Log In  3. Was an attempt made to cool the samples?			Yès 🗹	No 🗆	NA 🗆		
4. Were all samples received at a temperature of >0° C to 6.0°C			Yes 🗸	№ Ц	NA L		
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗆			
6. Sufficient sample volume for indicated test(s)?			Yes Y	No L			
<ol> <li>Are samples (except VOA and ONG) properly preserved?</li> </ol>			Yes V	No			
8. Was preservative added to bottles?			Yes	No 🗸	NA 🗆		
9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels?			Yes V	No ☑ No ☑	No VOA Vials  # of preserved bottles checked for pH;	DDS 3/33/18	
(Note discrepa	incles on chain of custody)				The state of the s	cf >12 unless noted)	
12. Are matrices correctly identified on Chain of Custody?			Yes 🗹	No 🗀	Arhuster?		
13, is it clear what analyses were requested?			Yas 🗸	No 🗌			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes V	No I	Checked by:			
	ing (if applicable)						
15. Was client no	lified of all discrepancies will	this order?	Yes 🗌	No 🗌	NA W		
By Who Regardi		Date: Via	eMail	Phone Fax	In Person		
16. Additional rer							
17 Coolet Información Societ No	metion Temp °C   Condition	Saál Intact   Seal No.   Se	eal Date	Signed By			



