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

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

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

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

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
lease 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778
Address: 380 North Airport Road, Durango, CO 81303
Facility or well name: BARNES LS 008A
API Number: 3004522460 OCD Permit Number:
U/L or Qtr/Qtr I Section 26.0 Township 32.0N Range 11W County: San Juan County
Center of Proposed Design: Latitude36.953402 Longitude107.954895 NAD: ☐1927 ➤ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC FEB 0 4 2019
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ DISTRICT
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4. Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: B
V1
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other SINGLE WALLED DOUBLE BOTTOMED SIDEWALLS NOT VISIBLE
Liner type: Thicknessmil
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, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify				
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)				
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC				
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for			
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No			
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No			
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No			
Within a 100-year floodplain FEMA map	☐ Yes ☐ No			

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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: (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 Crosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.					
Disposal Facility Name: Disposal Facility Permit Number:					
Disposal Facility Name: Disposal Facility Permit Number:					
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future server. Yes (If yes, please provide the information below) No					
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	2				
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 may require administrative approval from the appropriate districtions of exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be				
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA				
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA				
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	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 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No				
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No				
Within a 100-year floodplain FEMA map	☐ Yes ☐ No				
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 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 19.1 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot 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 G of 19.15.17.13 NMAC	15.17.11 NMAC				

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):
Signature: Date:
e-mail address: Telephone:
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2 17019 Title: OCD Permit Number:
21. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 12\13\2018
[2] Closure Competion Date.
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \square No
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) ☑ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) ☑ Disposal Facility Name and Permit Number ☑ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique ☑ Site Reclamation (Photo Documentation) On-site Closure Location: Latitude
25.
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print):Steve Moskal Title: Field Environmental Coordinator
Signature: Date: 2/1/2019
e-mail address:steven.moskal@bpx.com Telephone:505-330-9179

22.				
Operator Closure Certification:				
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
Name (Print):	Title:			
Signature:	Date:			
e-mail address:	Telephone:			

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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

Responsible	Party BP A	America Produ	ction Compar	ıy	OGRID 7	78	
Contact Name Steve Moskal		Contact Telephone (505) 330-9179					
Contact email Steven.Moskal@bpx.com Incide			Incident #	(assigned by OCD)	NVF1901741056		
Contact mail	ing address	380 North Air	port Road, Du	ırang	o, CO 813	303	
	Location of Release Source						
Latitude	36.	953402	(NAD 83 in dec	cimal deş	Longitude _ grees to 5 decin		07.954895
Site Name B	ARNES I	LS 008A			Site Type	Natural Gas	Well
Date Release	Discovered	December 13,	2018		API# (if app	olicable) 30-045	-22460
TT '. T	G .:	7. 1:	-				1
Unit Letter	Section	Township	Range		Cour		
I	26	32N	11W		San J	uan	
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 Release		Carculat	ions of specific	Volume Reco	
⊠ Produced				Volume Reco	vered (bbls) None		
		Is the concentrat	ion of dissolved c >10,000 mg/l?	hloride	e in the	☐ Yes ⊠ N	0
○ Condensa	te	The same of the sa	d (bbls) Unknow	vn		Volume Reco	vered (bbls) None
Natural G	as	Volume Release	d (Mcf)			Volume Reco	vered (Mcf)
Other (des	scribe)	Volume/Weight	Released (provide	e units)		Volume/Weig	tht Recovered (provide units)
Cause of Release TPH, BTEX, & chloride all below below below-grade tank (BGT) permit closure standards							
for confirmation sample.							

Origin of impacted soils identified beneath 21 bbl BGT were inconclusive. Possibly resulted from a

previous unlined earthen pit prior to the BGT installation.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?		
release as defined by 19.15.29.7(A) NMAC?	Undetermined at present tin	ne		
☐ Yes ☐ No	onacter minea at present tin			
105 110				
If YES, was immediate no	otice given to the OCD? By whom? To wh	hom? When and by what means (phone, email, etc)?		
Not required.				
	Initial Ro	esponse		
The responsible p	party must undertake the following actions immediatel	ly unless they could create a safety hazard that would result in injury		
The source of the rele	ase has been stopped.			
☐ The impacted area has	s been secured to protect human health and	the environment.		
Released materials ha	ve been contained via the use of berms or d	dikes, absorbent pads, or other containment devices.		
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.		
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:		
Soils impacted on	lly. Areal extent delineation i	required.		
has begun, please attach a	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Steve	Moskal	Title: Environmental Coordinator		
Signature:		Date:		
email: <u>Steven.Mosl</u>	kal@bpx.com	Telephone: (505) 330-9179		
OCD Only				
D ! . ! !		Date:		

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Barnes LS # 8A - Tank ID; B
API #: 3004522460
Unit Letter I, Section 26, T32N, R11W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and documented in the attached email.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification <u>BGT permit closure standards</u> (mg/Kg)	Sample Results (5 pt. comp.)
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.078
TPH	US EPA Method SW-846 418.1	100	<47
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<30

Constituents	Testing Method	Release Verification 19.15.29 NMAC closure standards	Sample Results
		(mg/Kg)	(Grab)
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.096
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	68.9
TPH	US EPA Method SW-846 418.1	2,500	1,491
Chlorides	US EPA Method 300.0 or 4500B	600 or background	<30

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits for confirmation sample. Grab sample @ 10 feet below grade recorded total BTEX exceeding 19.15.29 NMAC closure standard. A field and laboratory reports are attached.

- 7. BP shall notify the division District III office of its results on form C-141. **C-141 is attached.**
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Attached sampling results reveal evidence of a release had occurred.

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

<u>Sampling results reveal evidence of a release had occurred.</u> <u>BGT area remains open to conduct required site characterization &/or remediation.</u>

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

The BGT area will be reclaimed once site characterization &/or remediation has been completed and the well has been plugged & abandoned.

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

The BGT area will be reclaimed once site characterization &/or remediation has been completed and the well has been plugged & abandoned.

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

The BGT area will be reclaimed once site characterization &/or remediation has been completed and the well has been plugged & abandoned.

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

The BGT area will be reclaimed once site characterization &/or remediation has been completed and the well has been plugged & abandoned.

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

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

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

Closure report on C-144 form is included & contains a photo of the current condition.

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

BP Pit Closure Notification - BARNES LS 8A

From:	Naomi Azulai (Naomi.Azulai@BPX.COM)
To:	Cory.Smith@state.nm.us; Vanessa.Fields@state.nm.us
Cc:	$jeffcblagg@aol.com; blagg_njv@yahoo.com; Steven. Moskal@BPX.COM; matthew.baca@BPX.COM; Patti.Campbell@bpx.com; properties and the state of the sta$
Date:	Tuesday, December 4, 2018, 3:42 PM MST
	SENT VIA E-MAIL TO: CORY,SMITH@STATE,NM.US; VANESSA,FIELDS@STATE,NM.US
Decen	nber 4, 2018
New N	Mexico Oil Conservation Division
1000 F	Rio Brazos Road
Aztec,	New Mexico 87410
RE:	Notice of Proposed Below-Grade Tank (BGT) Closure
	BARNES LS 8A
	API 30-045-22460
	(I) Section 26 – T32N – R11W
	San Juan County, New Mexico
Dear N	Mr. Cory Smith and Mrs. Vanessa Fields,
In rega no lon	ards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will ger be operational at this well site. We anticipate this work to start on or around December 10, 2018.
Should	d you have any questions, please feel free to contact BP.
Sincer	rely,
Naom	i Azulai
Regula	atory Analyst
Tel: 97	70-232-1439

1199 Main Ave., Suite 101

Naomi.Azulai@bpx.com

Durango, CO 81301

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

bp



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

December 4, 2018

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

VIA EMAIL

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

Dear Ms. Thomas,

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

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

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

Sincerely,

Naomi Azulai

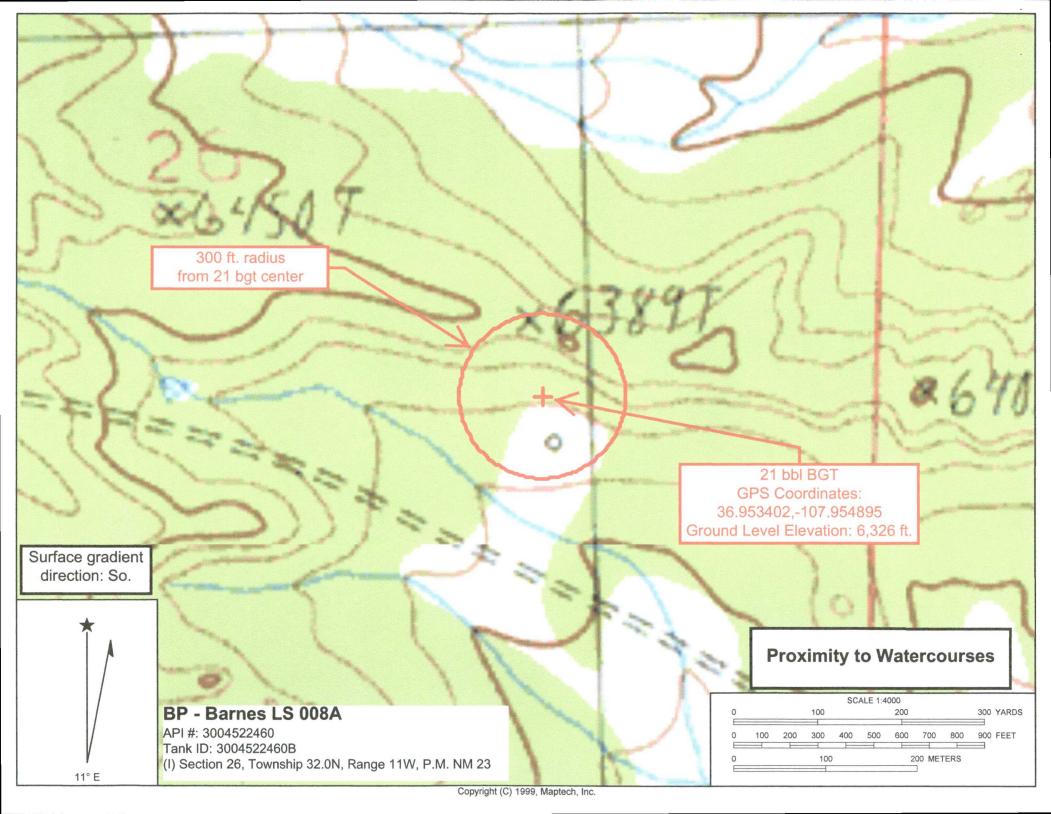
Naomi Azulai

BPX – San Juan

Regulatory Analyst

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413	API#: 3004522460	
	(505) 632-1199	TANK ID (if applicble):	
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:	PAGE#: 1 of 1	
SITE INFORMATION	J: SITE NAME: BARNES LS #8A	DATE STARTED: 12/10/18	
QUAD/UNIT: SEC: 26 TWP:	AANA AANA	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,500'S / 1,1	——————————————————————————————————————		=
	PROD. FORMATION: MV CONTRACTOR: BP-J. GONZALES	ENVIRONMENTAL SPECIALIST(S): NJV	
REFERENCE POINT	T: WELL HEAD (W.H.) GPS COORD.: 36.95311 X 107.95472	GL ELEV.: 6,326'	Constanting
1) 21 BGT (SW/DB) - B	00 000 400 V 407 05 4005	ARING FROM W.H.: 112', N25.5W	
2)		ARING FROM W.H.:	
3)	GPS COORD.: DISTANCE/BEA	ARING FROM W.H.:	-
4)	GPS COORD.:DISTANCE/BEA	ARING FROM W.H.:	_
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING (ppm)	3
		15B/8021B/300.0 (CI) 0.2	
2) SAMPLE ID: GRAB @ 10' (2	1) - B SAMPLE DATE: 12/10/18 SAMPLE TIME: 1322 LAB ANALYSIS: 80	15B/8021B/300.0 (CI) 2,994	4
3) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		-
4) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		-
5) SAMPLE ID:			
SOIL COLOR: MOSTLY DARK COHESION (ALL OTHERS): NON COHESIVE SLIGHTL	Y COHESIVE / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM /	STIFF / VERY STIFF / HARD	2
CONSISTENCY (NON COHESIVE SOILS): LO		COLORED SOILS ONLY	
SAMPLE TYPE: GRAB COMPOSITE :		NATION -	
	NO EXPLANATION - VARYING GRAYS BETWEEN 7.5' & 10' BELOW GRADE	VIIION -	-
SITE OBSERVATION	S: LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION - UNDETERMINED AT PI	RESENT TIME	
	ED AND/OR OCCURRED : YES NO EXPLANATION: DISCOLORED SOILS & APPARENT HY		-
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION -		
OTHER: NMOCD OR BLM REPS, NOT PR	RESENT TO WITNESS CONFIRMATION SAMPLING. GRAB SAMPLE COLLECTED	BENEATH BGT.	-
EXCAVATION DIMENSION ESTIMATION	: NA ft. X NA ft. X NA ft. EXCAVATION ES	TIMATION (Cubic Yards) : NA	-
DEPTH TO GROUNDWATER: > 100'	NEAREST WATER SOURCE: > 1,000' NEAREST SURFACE WATER: 300' < x < 1,000'		m
SITE SKETCH	DOT!		ä
OTTE ONE TOTT	BGT Located : off / on site PLOT PLAN circle: attached OWN	I CALIB. READ. = 101.6 ppm RF =1.00)
FENC	F	I CALIB. GAS = 100 ppm	-
	N I TIME	1:40 an(pm) DATE: 12/10/18	
	BERM	MISCELL. NOTES	
		sio#: 190040005402	
	(x x x)	REF #:	-
PROD TANK	(21)-B	ID: VHIXONEV11	-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	// PBGTL	J#:	-
	l RG	ermit date(s): 04/16/10	-
		OCD Appr. date(s): 04/03/16	-
	Ta	nk OVM = Organic Vapor Meter	-
	то \		-
	W.H. 🗸	BGT Sidewalls Visible: Y / N	-
NATES DOT DELCHIODISTING	X - S.P.D.	BGT Sidewalls Visible: Y / N	-
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEI	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT LE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: 10° E	_
NOTES: GOOGLE EARTH IMAG			

revised: 11/26/13





Analytical Report

Lab Order 1812512

Date Reported: 12/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Collection Date: 12/10/2018 1:15:00 PM

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

Project: **BARNES LS 8A** Lab ID: 1812512-002

Matrix: SOIL

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: smb

Chloride	ND	30	mg/Kg	20	12/11/2018 1:42:21 PM	42028
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	12/11/2018 1:12:17 PM	B56250
Surr: BFB	96.3	70-130	%Rec	1	12/11/2018 1:12:17 PM	B56250
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/11/2018 1:19:58 PM	42024
Motor Oil Range Organics (MRO)	55	47	mg/Kg	1	12/11/2018 1:19:58 PM	42024
Surr: DNOP	104	50.6-138	%Rec	1	12/11/2018 1:19:58 PM	42024
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
EPA METHOD 8260B: VOLATILES SHORT LIST Benzene	ND	0.019	mg/Kg	1	Analyst: 12/11/2018 1:12:17 PM	AG A56250
		0.019 0.039	mg/Kg mg/Kg	1		
Benzene	ND		0 0		12/11/2018 1:12:17 PM	A56250
Benzene Toluene	ND ND	0.039	mg/Kg	1	12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM	A56250 A56250
Benzene Toluene Ethylbenzene	ND ND ND	0.039 0.039	mg/Kg mg/Kg	1	12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM	A56250 A56250 A56250
Benzene Toluene Ethylbenzene Xylenes, Total	ND ND ND	0.039 0.039 0.078	mg/Kg mg/Kg mg/Kg	1 1 1	12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM 12/11/2018 1:12:17 PM	A56250 A56250 A56250 A56250

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- 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
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 12/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Lab ID:

Project:

1812513-001

BARNES LS 8A

Matrix: SOIL

Client Sample ID: GRAB @ 10' (21')-B Collection Date: 12/10/2018 1:22:00 PM

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	ND	30		mg/Kg	20	12/11/2018 1:54:46 PM	42028
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	AG
Gasoline Range Organics (GRO)	950	190		mg/Kg	50	12/11/2018 4:03:41 PM	B56250
Surr: BFB	92.3	70-130		%Rec	50	12/11/2018 4:03:41 PM	B56250
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS					Analyst:	Irm
Diesel Range Organics (DRO)	61	9.6		mg/Kg	1	12/11/2018 1:42:03 PM	42024
Motor Oil Range Organics (MRO)	480	48		mg/Kg	1	12/11/2018 1:42:03 PM	42024
Surr: DNOP	106	50.6-138		%Rec	1	12/11/2018 1:42:03 PM	42024
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	AG
Benzene	ND	0.096		mg/Kg	5	12/11/2018 1:40:55 PM	A56250
Toluene	ND	0.19		mg/Kg	5	12/11/2018 1:40:55 PM	A56250
Ethylbenzene	3.9	0.19		mg/Kg	5	12/11/2018 1:40:55 PM	A56250
Xylenes, Total	65	3.8		mg/Kg	50	12/11/2018 4:03:41 PM	A56250
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	5	12/11/2018 1:40:55 PM	A56250
Surr: Toluene-d8	103	70-130		%Rec	5	12/11/2018 1:40:55 PM	A56250

19.15.29 NMAC closure standard - 2,500 mg/Kg Total TPH = 1,491 mg/Kg Total BTEX = 68.9 mg/Kg 19.15.29 NMAC closure standard - 50 mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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Date	Time	Matrix	Sample	Request ID	A ZIIII ⁶ Container Type and # MCOHKO	Preservative Type	HEAL No.	BTEX +-MH	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
13/10/18	1333	SUIL	3PC - 18 @	5 (93)-A	4 02 1	Cool	-20	V		V									V			V	•
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	If ne	y, samples s	submitted to Hall E	nvironmental be s	ubcontracted to other	accredited laboratorie	es. This serves as notice of	f this p	ossibil	ity. A	ny sub	-contr	acted	data v	vill be	clearly	notat	ed on	the a	lica	repo	rt.	

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QA/QC Pad Standa			Level 4 (Full Validation)		STEVE MO	SKAL	80218)	(Gas only)	(MRO)			15)		04,504	PCB's			er - 300.1)			a	
Accreditat	ion:			Sampler:	NELSON VI	ELEZ)S)	Gas	DRO/	1	1	OSIMS)	and the second	50	8082			Water			sample	
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□ EDD (ype)			Sample Tempo	erature: $ t $	Kanal San	1	¥ +	(GRC	po	pa	0	stals	J,N	cide	(K	2			<u>a</u>	osit	(Y 0
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO. /6/25/15	BTEX +-MT8	BTEX + MTBE + TPH	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides	8250B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite	Air Bubbles (Y or N)
12/10/18	1322	SOIL	GRAB @ 16'(21)-B		Cool	-201	٧		٧								-	V	\neg	1	X 7	W
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Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Qual

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID MB-42028

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 42028

RunNo: 56244

Prep Date: 12/11/2018 Analysis Date: 12/11/2018 PQL

1.5

SeqNo: 1880206

Units: mg/Kg

HighLimit

Analyte Result

Sample ID LCS-42028

SampType: Ics

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: LCSS Batch ID: 42028

RunNo: 56244

ND

Prep Date: 12/11/2018

Analysis Date: 12/11/2018

SeqNo: 1880207

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val

%REC LowLimit

RPDLimit Qual

RPDLimit

Chloride

Result

SPK value SPK Ref Val %REC

95.8

0

90

110

HighLimit %RPD

%RPD

Chloride 14 1.5 15.00

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H 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

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

P

Sample container temperature is out of limit as specified

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID LCS-42024	SampType: LCS	3	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 420	24	F	RunNo: 50	6237				
Prep Date: 12/11/2018	Analysis Date: 12	/11/2018	8	SeqNo: 18	878763	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	49 10	50.00	0	97.6	70	130			
Surr: DNOP	4.5	5.000		90.8	50.6	138			
Sample ID MB-42024	SampType: MB	LK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 420	24	F	RunNo: 50	6237				
Prep Date: 12/11/2018	Analysis Date: 12	/11/2018	S	SeqNo: 18	878765	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
I Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.7	10.00		97.2	50.6	138			
Sample ID LCS-42041	SampType: LCS	3	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 420	41	F	RunNo: 50	6237				
Prep Date: 12/11/2018	Analysis Date: 12/	12/2018	S	SeqNo: 18	881116	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4	5.000		87.7	50.6	138			
Sample ID MB-42041	SampType: MB	LK	Tes	Code: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 420	41	F	RunNo: 50	6237				
Prep Date: 12/11/2018	Analysis Date: 12	/12/2018	S	SeqNo: 18	881117	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2	10.00		92.0	50.6	138			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client: Project:

Blagg Engineering BARNES LS 8A

Sample ID 100ng Ics SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: A56250 RunNo: 56250 Prep Date: Analysis Date: 12/11/2018 SeqNo: 1879098 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.95 0.025 1.000 95.0 70 130 0 Benzene Toluene 0.96 0.050 1.000 0 96.4 70 130 70 Surr: 1.2-Dichloroethane-d4 0.51 0.5000 101 130 Surr: 4-Bromofluorobenzene 0.48 0.5000 96.4 70 130 0.5000 70 130 Surr: Dibromofluoromethane 0.49 97.8 Surr: Toluene-d8 0.50 0.5000 100 70 130

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	1D: A5	6250	F	RunNo: 5	6250				
Prep Date:	Analysis D	ate: 12	2/11/2018	8	SeqNo: 1	879102	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812512

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: **B56250**

RunNo: 56250

Prep Date:

Analysis Date: 12/11/2018

SeqNo: 1879085

Units: mg/Kg

Analyte

Result PQL

LowLimit

LowLimit

70

ND

SPK value SPK Ref Val %REC HighLimit

RPDLimit Qual

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

460

500.0

91.6

130

Sample ID 2.5ug gro Ics

SampType: LCS

Batch ID: **B56250**

5.0

RunNo: 56250

Prep Date:

Analyte

Client ID: LCSS

Analysis Date: 12/11/2018

PQL

5.0

SeqNo: 1879610

Units: mg/Kg

HighLimit %RPD

%RPD

Gasoline Range Organics (GRO) Surr: BFB

Result 26 470

25.00 500.0

SPK value SPK Ref Val

104 93.6

%REC

0

70 70

130 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Practical Quanitative Limit **PQL**

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 6 of 6

P Sample pH Not In Range

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



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

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numb	er: 181	2512			RcptNo:	1
Received By:	Anne Thorne	12/11/2018 8:15:00	AM		ane ,	Am		
Completed By:	Anne Thorne	12/11/2018 8:29:35	AM		ame	11		
Reviewed By:	IO	12/11/18			Umu ,	of han		
	by: A- 12/111	10						
Chain of Cust		1 2						
1. Is Chain of Cu			Yes	✓	No [Not Present	
2. How was the s			Cou	rier				
Log In								
	pt made to cool the samples?		Yes	✓	No [NA 🗆	
781 J. P.								
4. Were all samp	les received at a temperature o	f >0° C to 6.0°C	Yes	✓	No [NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes	✓	No [
6. Sufficient samp	ole volume for indicated test(s)?	>	Yes	V	No [
7. Are samples (e	except VOA and ONG) properly	preserved?	Yes	✓	No			
8. Was preservati	ive added to bottles?		Yes		No 🗸	•	NA 🗆	
9. VOA vials have	e zero headspace?		Yes		No 🗆		No VOA Vials	
10. Were any sam	ple containers received broken	?	Yes		No V		# of preserved	
14 D						,	bottles checked	
	rk match bottle labels? ncies on chain of custody)		Yes		No L	7	for pH: (<2 or	>12 unless noted)
	orrectly identified on Chain of C	ustody?	Yes	\checkmark	No 🗆		Adjusted?	
13. Is it clear what	analyses were requested?		Yes	V	No 🗆			
	g times able to be met?		Yes	✓	No [Checked by:	
(if no, notify cu	stomer for authorization.)							***************************************
Special Handli	ng (if applicable)							
15. Was client not	ified of all discrepancies with th	is order?	Yes		No]	NA 🗹	
Person N	Notified:	Date	pat lanacoana a sono co	J0465 UKE 251 (2021-2754) ARIO 202	KLESKESTLES RELEIDER ZURSCH	EVENCY .		
By Whor	m: [Via:		ail Ph	one 🗌 F	ах	In Person	
Regardin	ng:		9042-DIENT/CN/2	CONTRACTOR CONTRACTOR		-	CONTRACTOR	
Client Ins	structions:						PROFESSIONAL TRANSPORTATION OF LANGUAGE LEAGUE LANGUAGE	
16. Additional rem	narks:							
17. Cooler Inform	nation							
Cooler No		I Intact Seal No	Seal D	ate S	igned By			
1	1.1 Good Yes	100						

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812513

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID MB-42028

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 42028

RunNo: 56244

Prep Date: 12/11/2018 Analysis Date: 12/11/2018

SeqNo: 1880206

Units: mg/Kg

Analyte

Result PQL

%RPD

%RPD

HighLimit

RPDLimit Qual

Chloride

ND 1.5

Sample ID LCS-42028

12/11/2018

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 42028

RunNo: 56244

Prep Date:

Analysis Date: 12/11/2018

SeqNo: 1880207

Units: mg/Kg

Analyte

%REC LowLimit HighLimit

SPK value SPK Ref Val

RPDLimit

Chloride

15.00

110

PQL

SPK value SPK Ref Val %REC LowLimit

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812513

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

Sample ID LCS-42024	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 42024	RunNo: 56237
Prep Date: 12/11/2018	Analysis Date: 12/11/2018	SeqNo: 1878763 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00	0 97.6 70 130
Surr: DNOP	4.5 5.000	90.8 50.6 138
Sample ID MB-42024	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 42024	RunNo: 56237
Prep Date: 12/11/2018	Analysis Date: 12/11/2018	SeqNo: 1878765 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
[Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	9.7 10.00	97.2 50.6 138
Sample ID LCS-42041	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 42041	RunNo: 56237
Prep Date: 12/11/2018	Analysis Date: 12/12/2018	SeqNo: 1881116 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.4 5.000	87.7 50.6 138
Sample ID MB-42041	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 42041	RunNo: 56237
Prep Date: 12/11/2018	Analysis Date: 12/12/2018	SeqNo: 1881117 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.2 10.00	92.0 50.6 138

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812513

13-Dec-18

Client:

Blagg Engineering

Project:

BARNES LS 8A

3														
Sample ID 100ng Ics	Samp1	ype: LC	S	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: LCSS	Batcl	n ID: A5	6250	F	RunNo: 5	6250								
Prep Date:	Analysis D	Date: 12	2/11/2018	5	SeqNo: 1879098 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.95	0.025	1.000	0	95.0	70	130							
Toluene	0.96	0.050	1.000	0	96.4	70	130							
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130							
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.4	70	130							
Surr: Dibromofluoromethane	0.49		0.5000		97.8	70	130							
Surr: Toluene-d8	0.50		0.5000		100	70	130							
Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List					
Client ID: PBS	Batcl	h ID: A5	6250	RunNo: 56250										
Prep Date:	Analysis D	Date: 12	2/11/2018	5	SeqNo: 1	879102	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130							
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130							
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130							
	0.10													
Surr: Toluene-d8	0.50		0.5000		101	70	130							

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
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Page 4 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1812513

13-Dec-18

Client: Project: **Blagg Engineering BARNES LS 8A**

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: **B56250**

RunNo: 56250

Prep Date:

Analysis Date: 12/11/2018

PQL

5.0

SeqNo: 1879085

Units: mg/Kg

Analyte

Surr: BFB

Result ND SPK value SPK Ref Val %REC

Gasoline Range Organics (GRO)

460

500.0

LowLimit 91.6

HighLimit

RPDLimit Qual

Sample ID 2.5ug gro Ics

SampType: LCS

SPK value SPK Ref Val

0

TestCode: EPA Method 8015D Mod: Gasoline Range

%RPD

%RPD

Client ID: LCSS

Batch ID: **B56250**

5.0

RunNo: 56250

70

130

Prep Date:

Analyte

Analysis Date: 12/11/2018

SeqNo: 1879610 %REC

Units: mg/Kg

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

Result PQL 26

470

25.00 500.0

104 93.6

70 70

LowLimit

HighLimit 130 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NA 87109 TEL: 505-345-3975 FAS: 503-345-4167 Website, www.hallonvironmental.com

Abanquerque, NA 87109 Sample Log-In Check List

Client Name: BLAGG Work Order Numi		ber: 1812513		RoptNo	2.1
Received By: Anne Thome	12/11/2018 B:15:00 AM		am)	am I'm	
Completed By: Anne Thame	12/11/2016 B:34:37 AM		an I	an Ru	
Reviewed By:	12/11/18		0,414		
Labeled by: A- 12	HIIR				
Chain of Custody					
1. Is Chain of Custody complete?		Yes V	No .	Not Present	
2. How was the sample delivered?		Courier			
Log In					
Was an attempt made to cool the sample	987	Yes 🗸	No	NA 🗔	
4. Were all samples received at a temperate	are of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample volume for indicated testis)?		Yes 🗸	No 🗌		
7 Are samples (except VOA and ONG) properly preserved?		Yes V	No 🗆		
8. Was preservative added to bottles?		Yes	No Y	NA	
9. VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
10. Were any sample containers received broken?		Yes	No V		
			1-000	# of preserved bottles checked	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗹	No	far pH: (<2 o	r > 12 Unless noted)
12. Are matrices correctly identified on Chain of Custody?		Yes V	No	Adjusted?	
13. Is it clear what analyses were requested?		Yes 💉	No 🗀		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checked by	
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	th this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date			ma.	
By Whom:	Via:	eMail	Phone Fa	ix In Person	
Regarding:			eliki ekite eki elemen egad isane entile bilik (alapasa) yana		
Client Instructions:		11.17.17.17.17.17.17.17.17.17.17.17.17.1			
16. Addalonal remarks:					
17. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 11 Good	Yes				



