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

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.

Pit, Below-Grade Tank, or
19327 Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration OIL CONS. DIV DIST. 3 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
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.
1. Operator: <u>ConocoPhillips Company</u> OGRID #: <u>217817</u>
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: State Gas Com A 1
API Number: <u>30-045-10062</u> OCD Permit Number: <u>21N</u> Pares <u>12W</u> County See Iver
U/L or Qtr/Qtr N Section 36 Township 31N Range 12W County: San Juan
Center of Proposed Design: Latitude _36.851852_•N Longitude108.053721_•W NAD: □1927 ⊠ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
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 Other Volume: bbl Dimensions: L_x W_x D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
□ Visible sidewalls and liner □ Visible sidewalls only □ Other
Liner type: Thickness mil _ HDPE PVC 🛛 Other UNSPECIFIED
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.
5. 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

Oil Conservation Division

6 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 Variances 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: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. **General siting** Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. Yes No NA NA NM Office of the State Engineer - iWATERS database search; USGS; 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 . NA NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 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. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No 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. (Does not apply to below grade tanks) FEMA map **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes No 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 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, Yes No 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 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial Yes No application. 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 Yes No 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

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No						
Temporary Pit Non-low chloride drilling fluid							
 Within 300 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). 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 							
Within 500 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 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site							
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No						
Permanent Pit or Multi-Well Fluid Management Pit							
 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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No						
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Temporary Pits, Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 	9 NMAC 9.15.17.9 NMAC						
11.							
Multi-Well Fluid Management Pit 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 do attached.	9.15.17.9 NMAC						
Previously Approved Design (attach copy of design) API Number: or Permit Number:							

12.		
Permanent Pits Permit Application Checklist		doorumante ana
Instructions: Each of the following items must attached.	be attached to the application. Please indicate, by a check mark in the box, that the	aocuments are
Hydrogeologic Report - based upon the re	quirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC	
	as - based upon the appropriate requirements of 19.15.17.10 NMAC	
Climatological Factors Assessment	d upon the environminte requirements of 10 15 17 11 NMAC	
	d upon the appropriate requirements of 19.15.17.11 NMAC esign - based upon the appropriate requirements of 19.15.17.11 NMAC	
	ppropriate requirements of 19.15.17.11 NMAC	
Liner Specifications and Compatibility As	ssessment - based upon the appropriate requirements of 19.15.17.11 NMAC	
Quality Control/Quality Assurance Constr		
	upon the appropriate requirements of 19.15.17.12 NMAC an - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Freeboard and Overtopping Prevention Pl. Nuisance or Hazardous Odors, including I 		
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	
^{13.} Proposed Closure: 19.15.17.13 NMAC		
	oxes, Boxes 14 through 18, in regards to the proposed closure plan.	
		luid Managamant Dit
Alternative	y Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	fuid Management Pit
Proposed Closure Method: X Waste Excavation	on and Removal	
	(Closed-loop systems only)	
	Method (Only for temporary pits and closed-loop systems)	
Alternative Clos	lace Burial On-site Trench Burial	
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.	
	e appropriate requirements of 19.15.17.13 NMAC	
	e) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC	
	er (for liquids, drilling fluids and drill cuttings) ions - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
	ppriate requirements of Subsection H of 19.15.17.13 NMAC	
Site Reclamation Plan - based upon the ap	propriate requirements of Subsection H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure metl	hads only): 19151710 NMAC	
	monstration of compliance in the closure plan. Recommendations of acceptable sou	rce material are
	o certain siting criteria require justifications and/or demonstrations of equivalency. I	
19.15.17.10 NMAC for guidance.		
Crown downton is loss than 25 fast halow the better	of the huried meete	
Ground water is less than 25 feet below the botto	TERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the be	ottom of the buried waste TERS database search; USGS; Data obtained from nearby wells	Yes No
		□ NA
Ground water is more than 100 feet below the bo		Yes No
- NM Office of the State Engineer - IWAI	TERS database search; USGS; Data obtained from nearby wells	□ NA
	course, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa	Yes No
lake (measured from the ordinary high-water ma		
- Topographic map; Visual inspection (cer		and and the
	ool, hospital, institution, or church in existence at the time of initial application.	Yes No
- Visual inspection (certification) of the pr	roposed site; Aerial photo; Satellite image	
	fresh water well or spring used for domestic or stock watering purposes, in existence	Yes No
at the time of initial application.		
- NM Office of the State Engineer - IWAI	TERS database; Visual inspection (certification) of the proposed site	
Written confirmation or verification from the mu	inicipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland.		
	p; Topographic map; Visual inspection (certification) of the proposed site	□ Yes □ No
	thin a defined municipal fresh water well field covered under a municipal ordinance	
Form C-144	Oil Conservation Division Page 4 of	(

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
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map Within a 100-year floodplain.	Yes No
- FEMA map	Yes No
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plate 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 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation 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 canned 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 	11 NMAC 15.17.11 NMAC
17. 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 believed and be	ef.
Name (Print): Title:	
Signature: Date:	
Signature: Date: e-mail address: Telephone:	
	310016
e-mail address: Telephone: <u>OCD Approva</u> l: Permit Application (including closure plan) OcD Representative Signature: Approval Date: K	3 Doub the closure report. complete this
e-mail address:	complete this

Oil Conservation Division

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):	Crystal Walker	Title: Regu	ulatory Coordinator		
Signature:	Getal	Walker	Date:	4/11/16	
e-mail address:	crystal.walker@cop.com	Telephone: (505) 326-983	37		

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: State Gas Com A 1 API No.: 30-045-10062

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

 COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do 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, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. COPC will test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)	
Benzene	EPA SW-846 8021B or 8260B	0.2	
BTEX	EPA SW-846 8021B or 8260B	50	
TPH	EPA SW-846 418.1	100	
Chlorides	EPA 300.0	250	

6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification is attached.

9. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner is attached.

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs. Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Attached)

Walker, Crystal

From: Sent: To: Subject: Journey, Denise D Thursday, January 09, 2014 7:03 AM Powell, Brandon, EMNRD; Kelly, Jonathan, EMNRD STATE GAS COM A 1 / 30-045-10062 72 HOUR NOTIFICATION

Subject: 72 HOUR NOTIFICATION OF BGT CLOSURE

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name: STATE GAS COM A 1

API#: 30-045-10062

Location: Unit "N", Sec. 36, T31N, R12W

Footages: 1090' FSL & 1650' FWL

Operator: ConocoPhillips Company

Surface Owner: State

Denise Journey Regulatory Technician ConocoPhillips Company 505-326-9556 Denise.Journey@conocophillips.com 1

State of New Mexico Energy Minerals and Natural Resources

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

Release Notification and Corrective Action

Form C-141 Revised August 8, 2011

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

						OPERA'	TOR		🗌 Initi	al Report 🛛 Final Report
Name of C	ompany C	onocoPhillip	s Compar	ny		Contact Cr	ystal Tafoya			·
Address 34	01 East 30	th St, Farmin	igton, NM	1		Telephone 1	No.(505) 326-9	837		
Facility Na	me: State	Gas Com A	1			Facility Typ	e: Gas Well			
Surface Owner State Mineral Owner S						State (E-315	50)		API No	.30-045-10062
				LOCA	ATION	N OF REI	LEASE			
						South Line	Feet from the		est Line	County
N	36	31N	1090		South	1650	W	Vest	San Juan	
				Latitude 30	6.85164	Longitud	e <u>-108.05347</u>			
				NAT	URE	OF REL	EASE			
Type of Rela	ease Pro	duced Fluids				Volume of	Release Unk	nown		Recovered 360 cubic yds.
Source of Re	elease Bel	ow Grade Ta	nk			the sector structure of	lour of Occurrent	ce		Hour of Discovery
		0. 0	-			Unknown			January	29, 2014
Was Immedi	late Notice		Yes	No 🛛 Not R	equired	If YES, To	Whom?			
By Whom?			-			Date and H	lour		ť.	
Was a Water	course Rea						olume Impacting	the Water	rcourse.	
			Yes 🛛	No						A DICT 2
If a Waterco	urse was Im	pacted, Desci	ibe Fully.	*				01	CONS.	DIV DIST. 3
N/A								Gin		- 0014
									MAY 1	1 5 2014
Describe Ca	use of Probl	em and Reme	dial Actio	n Taken *	_					
Below Grad	le Tank Clo	osure Activiti	es							
		and Cleanup								
was 35' x 31 Analytical r	' x 9' and 3 esults for T	60 cubic yar TPH, BTEX a	ds of soil y and Chlor	was transported	to a thir the regu	d party land latory stand	farm. Excavation ards set forth in	on and co the NM	onfirmatio	g a release. The excavation on sampling occurred. delines for Remediation of
regulations a public health should their or the enviro	all operators of or the environment operations I onment. In a	are required ironment. The have failed to	to report a acceptan adequately OCD accept	nd/or file certain r ce of a C-141 repo y investigate and r	release no ort by the remediate	otifications a e NMOCD m e contaminat	nd perform corre- arked as "Final R ion that pose a th	ctive action Report" do reat to gro	ons for rel oes not rel ound wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
			1				OIL CON	SERV.	ATION	DIVISION
Signature:	Conta	ld.Ta	toja			Approved by	Environmental S	Specialist	Jona	tto. Kille
Printed Nam	ne: Crystal	Tafoya							1	8
		ental Speciali	st			Approval Da	te: 9/4/2	2014 E	Expiration	Date:
		.tafoya@cono		.com		Conditions o	f Approval: nee	de to	where permission	Attached
					for indicated BGT closure.					

Date: 5/12/2014 Phone: (505) 326-9837 * Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

April 28, 2014

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to: SJBUE-Team@ConocoPhillips.com

RE: Below Grade Tank Closure and Final Excavation Report State Gas Com A #1 San Juan County, New Mexico

Dear Ms. Tafoya:

On January 29 and 30, 2014, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) State Gas Com A #1, located in San Juan County, New Mexico. A historical release was discovered during BGT closure sampling at the location, and the final excavation of contaminated soils was completed by contractors while AES was on location on January 30, 2014.

1.0 Site Information

1.1 Location

Site Name – State Gas Com A #1 Location – SE¼ SW¼, Section 36, T31N, R12W, San Juan County, New Mexico Well Head Latitude/Longitude – N36.85164 and W108.05347, respectively Release Location Latitude/Longitude – N36.85186 and W108.05363, respectively Land Jurisdiction – State of New Mexico Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014 Crystal Tafoya State Gas Com A #1 BGT Closure and Final Excavation Report April 28, 2014 Page 2 of 6

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 0 based on the following factors:

- Depth to Groundwater: A groundwater well (SJ 03309) located approximately 1,700 feet southwest of the location and at a lower elevation reported the depth to groundwater at 210 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Barton Arroyo is located approximately 2,800 feet west of the location, and Kochis Arroyo is located approximately 2,900 feet east of the location. (0 points)

1.3 Assessment

AES was initially contacted by Dan Rudder of CoP on January 28, 2014, and on January 29, 2014, Heather Woods and Emilee Skyles of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample (SC-1) was composited from the four perimeter samples and one center sample. Sample locations are shown on Figure 2.

Based on the field screening results from the BGT assessment, a release was confirmed at the location. AES recommended an area of excavation and provided excavation guidance while onsite on January 29, 2014.

On January 30, 2014, AES returned to the location to collect confirmation soil samples from the walls and base of the final excavation. AES personnel collected five confirmation soil samples (SC-2 through SC-6) from the walls and base of the excavation. The area of the final excavation was approximately 35 feet by 31 feet by 9 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

On January 29, 2014, AES personnel collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and analysis of total petroleum hydrocarbon (TPH). Composite

Crystal Tafoya State Gas Com A #1 BGT Closure and Final Excavation Report April 28, 2014 Page 3 of 6

sample SC-1 was field sampled for VOCs, TPH, and chloride and was submitted for confirmation laboratory analysis.

In addition, AES personnel collected five 5-point composite (SC-2 through SC-6) soil samples from the walls and base of the final excavation for confirmation field sampling of VOCs and TPH on January 30, 2014. Composite samples SC-2, SC-4, and SC-5 were also submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method* 418.1.

2.1.3 Chlorides

Soil sample SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The soil samples (SC-1, SC-2, SC-4, and SC-5) collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

In addition, soil sample SC-1 was laboratory analyzed for:

Chlorides per USEPA Method 300.0.

Crystal Tafoya State Gas Com A #1 BGT Closure and Final Excavation Report April 28, 2014 Page 4 of 6

2.3 Field and Laboratory Analytical Results

On January 29, 2014, BGT closure field screening results for VOCs via OVM showed concentrations ranging from 46.1 ppm in the S-2 up to 963 ppm in S-5. Field TPH concentrations were reported at 4,260 mg/kg in S-1 and 5,000 mg/kg in SC-1.

On January 30, 2014, final excavation field screening results for VOCs via OVM ranged from 82.9 ppm in SC-3 up to 658 ppm in SC-5. Field TPH concentrations ranged from 449 mg/kg in SC-3 up to 2,660 mg/kg in SC-5. Results are included below in Table 1 and on Figures 2 and 3. The AES Field Sampling Reports are attached.

		Janua	ry 2014		
Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level* (NMAC 19.15.17.13E)			100*	100/5,000*	250
S-1	1/29/14	0.5	536	4,260	NA
S-2	1/29/14	0.5	46.1	NA	NA
S-3	1/29/14	0.5	770	NA	NA
S-4	1/29/14	0.5	784	NA	NA
S-5	1/29/14	0.5	963	NA	NA
SC-1	1/29/14	0.5	480	5,000	60
SC-2	1/30/14	1 to 9	389	1,100	NA
SC-3	1/30/14	1 to 9	82.9	449	NA
SC-4	1/30/14	1 to 9	429	2,110	NA
SC-5	1/30/14	9	658	2,660	NA
SC-6	1/30/14	1 to 9	92.1	722	NA

Table 1. Soil Field Sampling VOCs, TPH, and Chloride Results State Gas Com A #1 BGT Closure and Final Excavation

NA - not analyzed

*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) and NMAC 19.15.17.13E.

Laboratory analyses for SC-1 were used to confirm BGT closure sampling results. Laboratory analytical results reported benzene and total BTEX concentrations at 0.065 mg/kg and 4.32 mg/kg, respectively. The laboratory chloride concentration was reported at 38 mg/kg. Crystal Tafoya State Gas Com A #1 BGT Closure and Final Excavation Report April 28, 2014 Page 5 of 6

Laboratory analyses for SC-2, SC-4, and SC-5 were used to confirm field sampling results from the final excavation extents. Benzene concentrations were reported below laboratory detection limits in all samples. Total BTEX concentrations ranged from 1.68 mg/kg in SC-2 up to 10.71 mg/kg in SC-5. Results are summarized in Table 2 and included on Figures 2 and 3. Laboratory analytical reports are attached.

		Sample	12.18		
Sample ID	Date Sampled	Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
	Action Level ⁴ 19.15.17.13E		0.2/10*	50	250
SC-1	1/29/14	0.5	0.065	4.32	38
SC-2	1/30/14	1 to 9	<0.18	1.68	NA
SC-4	1/30/14	1 to 9	<0.32	2.99	NA
SC-5	1/30/14	9	<0.17	10.71	NA

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and ChloridesState Gas Com A #1 BGT Closure and Final Excavation

NA - not analyzed

*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) and NMAC 19.15.17.13E.

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in two samples, S-1 (4,260 mg/kg) and SC-1 (5,000 mg/kg). However, benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of NMOCD action level of 250 mg/kg.

Based on field sampling results from the BGT closure assessment, a release was confirmed at the State Gas Com A #1, and AES provided excavation guidance while onsite on January 29, 2014. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 0.

Excavation of the petroleum contaminated soils was completed on January 30, 2014. Field screening results for VOCs via OVM were above the NMOCD action level of 100 ppm VOCs in SC-2 (389 ppm), SC-4 (429 ppm), and SC-5 (658 ppm). However, laboratory Crystal Tafoya State Gas Com A #1 BGT Closure and Final Excavation Report April 28, 2014 Page 6 of 6

analytical results from January 30, 2014, reported benzene and total BTEX concentrations in SC-2, SC-4, and SC-5 below NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Field TPH concentrations were reported below the NMOCD action level of 5,000 mg/kg in each sample collected from the base and sidewalls of the final excavation, with the highest concentration reported in SC-5 with 2,660 mg/kg. The area of the final excavation was approximately 35 feet by 31 feet by 9 feet in depth.

Based on final field and laboratory analytical results of the excavation of petroleum contaminated soils at the State Gas Com A #1, VOCs, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the final sidewalls and base of the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

David & Reve

David J. Reese Environmental Scientist

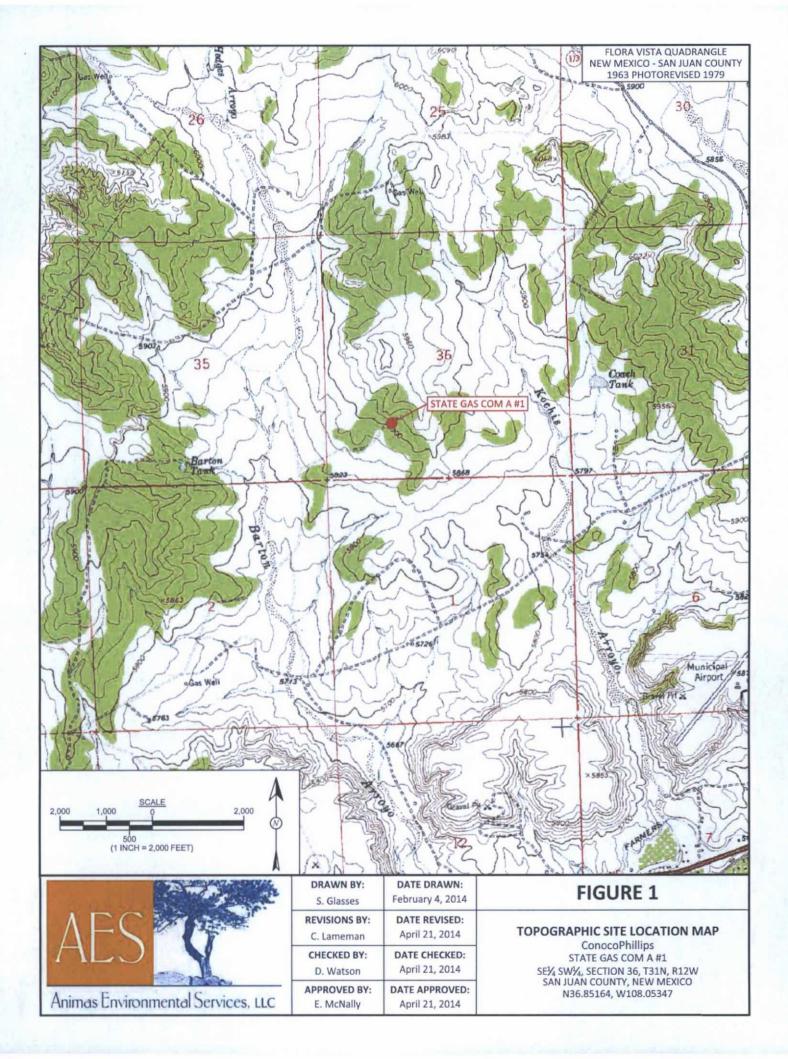
Elizabeth o Mendly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map with BGT Closure, January 2014 Figure 3. Final Excavation Sample Locations and Results, January 2014 AES Field Sampling Report 012914 AES Field Sampling Report 013014 Hall Laboratory Analytical Report 1401C16 Hall Laboratory Analytical Report 1401C21

\\SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\State Gas Com A#1\State Gas Com A #1 BGT Closure and Final Excavation Report 042814.docx



LEGEND SAMPLE LOCATIONS

	Field Sar	-	1 1	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL	-	100	250
S-1	1/29/14	536	4,260	NA
S-2	1/29/14	46.1	NA	NA
S-3	1/29/14	770	NA	NA
S-4	1/29/14	784	NA	NA
S-5	1/29/14	963	NA	NA
SC-1	1/29/14	780	5,000	60

		Laborato	ry Analytica	al Results		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL	0.2	50	10	00	250
SC-1	1/29/14	0.065	4.32	NA	NA	38

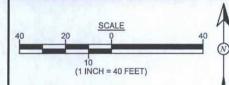
THROUGH S-5. NA - NOT ANALYZED

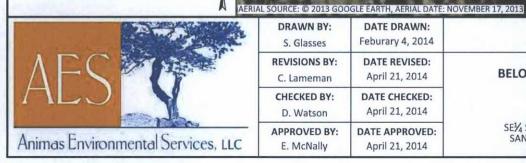
BGT - N36.85186 W108.05363

S-5

STATE GAS COM A #1 WELL MONUMENT

5-4

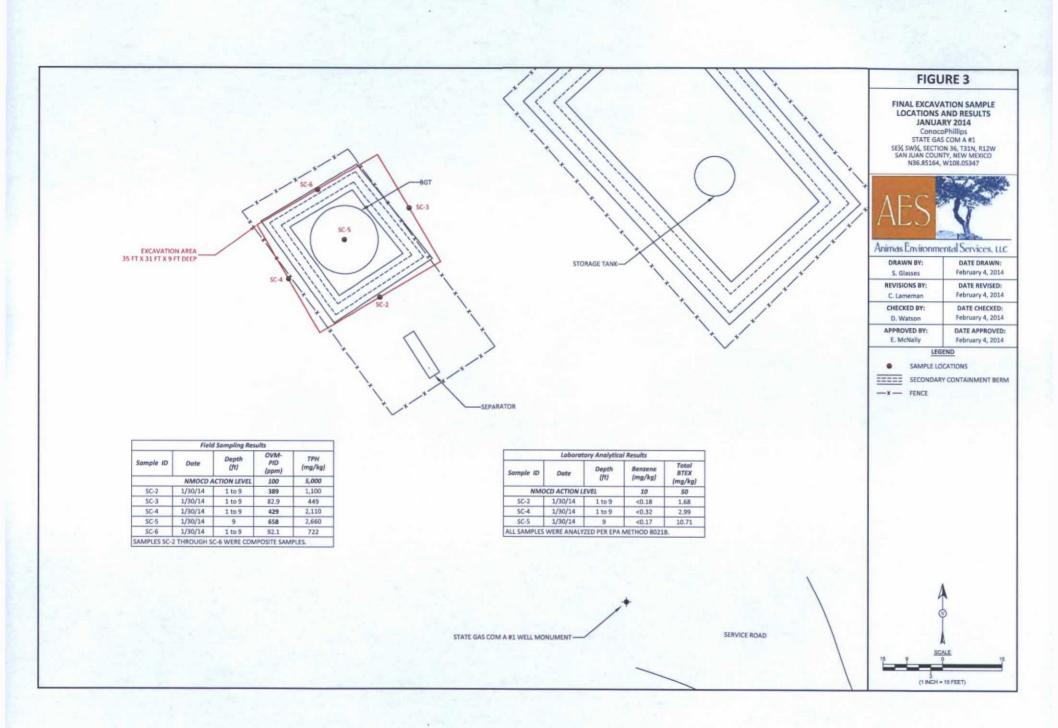




DRAWN BY:	DATE DRAWN:
S. Glasses	Feburary 4, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	April 21, 2014
CHECKED BY:	DATE CHECKED:
D. Watson	April 21, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	April 21, 2014

FIGURE	2
--------	---

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JANUARY 2014 ConocoPhillips STATE GAS COM A #1 SE¼ SW¼, SECTION 36, T31N, R12W SAN JUAN COUNTY, NEW MEXICO N36.85164, W108.05347



AES Field Sampling Report

Client: ConocoPhillips Project Location: State Gas Com A #1

Date: 1/29/2014

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials			
S-1	1/29/2014	11:52	Center	536	NA	12:20	4,263	200	10	HMW			
S-2	1/29/2014	12:25	North	46.1	NA	Not Analyzed for TPH							
S-3	1/29/2014	12:26	South	770	NA		Not	Analyzed for T	РН				
S-4	1/29/2014	12:27	East	784	NA		Not	Analyzed for T	РН				
S-5	1/29/2014	12:28	West	963	NA	Not Analyzed for TPH							
SC-1	1/29/2014	12:30	Composite	480	60	13:01	5,000	200	10	HMW			

DF Dilution Factor

- NA Not Analyzed
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL. Total Petroleum Hydrocarbons - USEPA 418.1 Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Analyst:

Aleather M. Woods

AES Field Sampling Report

Client: ConocoPhillips

Project Location: State Gas Com A #1

Matrix: Soil

Date: 1/30/2014



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-2	1/30/2014	13:50	South	389	14:41	1,102	20.0	1	DAW
SC-3	1/30/2014	14:00	East	82.9	14:47	449	20.0	1	DAW
SC-4	1/30/2014	14:05	West	429	14:50	2,111	20.0	1	DAW
SC-5	1/30/2014	14:10	Base	658	14:53	2,662	200	10	DAW
SC-6	1/30/2014	13:45	North	92.1	14:38	722	20.0	1	DAW

- DF Dilution Factor
- NA Not Analyzed
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL. Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Debrah Water



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

February 06, 2014

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: COP State Gas Com A #1

OrderNo.: 1401C16

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1401C16

Date Reported: 2/6/2014

CLIENT: Animas EnvironmentalProject:COP State Gas Com A #1Lab ID:1401C16-001	Matrix:	SOIL	C		Date: 1/2	2-1 29/2014 12:30:00 PM 30/2014 10:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	JMP
Benzene	0.065	0.047		mg/Kg	1	2/4/2014 11:24:44 AM	11541
Toluene	0.10	0.047		mg/Kg	1	2/4/2014 11:24:44 AM	11541
Ethylbenzene	0.25	0.047		mg/Kg	1	2/4/2014 11:24:44 AM	11541
Xylenes, Total	3.9	0.094		mg/Kg	1	2/4/2014 11:24:44 AM	11541
Surr: 4-Bromofluorobenzene	135	80-120	S	%REC	1	2/4/2014 11:24:44 AM	11541
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	38	30		mg/Kg	20	2/4/2014 12:22:57 PM	11554

Hall Environmental Analysis Laboratory, Inc.

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

for prepara
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ater than 2
ction Lim

- associated Method Blank
- ration or analysis exceeded

Page 1 of 3

orting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C16 06-Feb-14

	COP S	tate Gas Com A #1	and the second		1.1.1	
Sample ID Client ID: Prep Date: Analyte	PBS	SampType: MBLK Batch ID: 11554 Analysis Date: 2/4/2014 Result PQL SPK value	TestCode: EPA Metho RunNo: 16541 SeqNo: 476212 SPK Ref Val %REC LowLim	Units: mg/Kg	RPDLimit	Qual
Chloride		ND 1.5				
Client ID:	LCS-11554 LCSS	SampType: LCS Batch ID: 11554	TestCode: EPA Metho RunNo: 16541			
Prep Date: Analyte	2/4/2014	Analysis Date: 2/4/2014 Result PQL SPK value 14 1.5 15.00	SeqNo: 476213 SPK Ref Val %REC LowLim 0 91.9 9	0	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- P Sample pH greater than 2.
- Reporting Detection Limit RL

Page 2 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C16 06-Feb-14

Prep Date: 2/3/2014 Analysis Date: 2/4/2014 SeqNo: 475824 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene ND 0.050	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene ND 0.050	
Benzene ND 0.050	
Benzene ND 0.050	imit Qual
Toluene ND 0.050	
Ethylbenzene ND 0.050	
Xylenes, Total ND 0.10	
Surr: 4-Bromofluorobenzene 0.92 1.000 91.9 80 120	den en
Sample ID LCS-11541 SampType: LCS TestCode: EPA Method 8021B: Volatiles	
Client ID: LCSS Batch ID: 11541 RunNo: 16527	
Prep Date: 2/3/2014 Analysis Date: 2/4/2014 SeqNo: 475825 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Benzene 1.1 0.050 1.000 0 111 80 120	
Toluene 1.1 0.050 1.000 0 108 80 120	
Ethylbenzene 1.1 0.050 1.000 0 109 80 120	
Xylenes, Total 3.3 0.10 3.000 0 109 80 120	
Surr: 4-Bromofluorobenzene 0.96 1.000 96.3 80 120	
	1000
Sample ID 1401C16-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles	
Client ID: SC-1 Batch ID: 11541 RunNo: 16527	
Prep Date: 2/3/2014 Analysis Date: 2/4/2014 SeqNo: 475827 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Benzene 1.4 0.048 0.9551 0.06513 135 67.4 135	S
Toluene 1.4 0.048 0.9551 0.1000 132 72.6 135	
Ethylbenzene 1.6 0.048 0.9551 0.2453 139 69.4 143	
Xylenes, Total 7.5 0.096 2.865 3.888 126 70.8 144	
Surr: 4-Bromofluorobenzene 1.3 0.9551 137 80 120	S
Sample ID 1401C16-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles	1.421
Client ID: SC-1 Batch ID: 11541 RunNo: 16527	
Prep Date: 2/3/2014 Analysis Date: 2/4/2014 SeqNo: 475828 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	and the second s
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene 1.4 0.048 0.9542 0.06513 138 67.4 135 1.59	20 S
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene 1.4 0.048 0.9542 0.06513 138 67.4 135 1.59 Toluene 1.4 0.048 0.9542 0.1000 136 72.6 135 2.61	20 S 20 S
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene 1.4 0.048 0.9542 0.06513 138 67.4 135 1.59 Toluene 1.4 0.048 0.9542 0.1000 136 72.6 135 2.61 Ethylbenzene 1.6 0.048 0.9542 0.2453 143 69.4 143 2.40	20 S 20 S 20 S
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL Benzene 1.4 0.048 0.9542 0.06513 138 67.4 135 1.59 Toluene 1.4 0.048 0.9542 0.1000 136 72.6 135 2.61	20 S 20 S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 3

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-39	al Analysis Labora 4901 Hawkin: Ibuquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	^{8 NE} 7109 Sam 4107	ple Log-In Check List
Client Name: Animas Environmental Work Order Number	er: 1401C16		RcptNo: 1
Received by/date: MA 01/30/14			
Logged By: Ashley Gallegos 1/30/2014 10:00:00 /	AM	AJ	
Completed By: Aspley Gallegos 1/30/2014 7:42:02 Pl	M	A	
Reviewed By: A DE 020314			
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes []	No 🗌	Not Present
2. Is Chain of Custody complete?	Yes 🖌	No	Not Present
3. How was the sample delivered?	Client		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗋	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗋	
7. Sufficient sample volume for indicated test(s)?	Yes	No	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🖌	No	
9. Was preservative added to bottles?	Yes 🗋	No 🗹	na []
10.VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🖌	No 🛄	Adjusted?
14. Is it clear what analyses were requested?	Yes 🖌	No L	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No	Checked by:
Special Handling (if applicable)			

16.Wa	s client notified of all discrepancies with	his order? Yes	No 🗆	NA 🗹
	Person Notified:	Date:		
i	By Whom:	Via: eMail	Phone Fax	In Person
1	Regarding:			
1	Client Instructions:	NIRADOLINIKA ATARA ATARA ZA BODI BANGANANA IN	Addition to an an anna anna a na an an an an an an	AND THE OWNER OF STREET
17. Ad	ditional remarks:	HARY CHART AND AND AN ANY AN AN ANY ANY ANY ANY ANY ANY AN	(Contractor of the second s	

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

Page 1 of 1

Mailing	SER Address Aemin	1624	NMENTAL LLC E. COMANCHE NM 87401 -2281	Project Name: CP STATE GAS Com A # 1 Project #:						A	NWW ns N	AL /.hall IE - 975	YS env Alb	SIS vironr	ment erqui	A tal.co e, N -345	30 om M 87 -410	RA 109	NTA	
email o QA/QC I Stan Accredi	r Fax#: Package: dard tation AP		Level 4 (Full Validation) r	Sampler: E	ATSON SKYLE	D No 🦂 🦓 🔬	6021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	118.1)	504.1)	r 8270 SIMS)	S	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's		(AC	CHLOPIDES		or N)
Date	(Type)	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX FACTOR	BTEX + MTBE	TPH 8015B (G	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,N	8081 Pesticide	8260B (VOA)	8270 (Semi-VOA)	300.0 CI		Air Bubbles (Y or N)
1/29/14	1230	Soil	SC-1	1-402.		-001	X											×		
ate: 30/14 hate: 20/14	Time:		154	Received by:	uhber i.	Date Time 135/14 (136 Date Time 56/30/14 1000	ND	:10: EA'.	354					1		1)00	-	BEN	ale	



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

February 03, 2014

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071 FAX

RE: COP State Gas Com A #1

OrderNo.: 1401C21

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/31/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order 1401C21

Date Reported: 2/3/2014

Hall Environmental Analysis Laboratory, Inc.

Project: COP State Gas Com A #1 Collection Date: 1/30/2014 1:50:00 PM	
Lab ID: 1401C21-001 Matrix: MEOH (SOIL) Received Date: 1/31/2014 10:10:00 AM	
Analyses Result RL Qual Units DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES Analyst:	JMP
Benzene ND 0.18 mg/Kg 5 1/31/2014 12:03:10 PM	R16424
Toluene ND 0.18 mg/Kg 5 1/31/2014 12:03:10 PM	R16424
Ethylbenzene 0.28 0.18 mg/Kg 5 1/31/2014 12:03:10 PM	R16424
Xylenes, Total 1.4 0.35 mg/Kg 5 1/31/2014 12:03:10 PM	R16424
Surr: 4-Bromofluorobenzene 105 80-120 %REC 5 1/31/2014 12:03:10 PM	R16424

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

Qualifiers:		Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank							
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded							
	J	Analyte detected below quantitation limits	ND P	Not Detected at the Reporting Limit Page 1 of 4							
	0	RSD is greater than RSDlimit		Sample pH greater than 2 for VOA and TOC only.							
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
	S	Spike Recovery outside accepted recovery limits									

Analytical Report Lab Order 1401C21

Date Reported: 2/3/2014

Page 2 of 4

CLIENT: Animas Environmental **Client Sample ID: SC-4** COP State Gas Com A #1 Collection Date: 1/30/2014 2:05:00 PM **Project:** Lab ID: 1401C21-002 Matrix: MEOH (SOIL) Received Date: 1/31/2014 10:10:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 8021B: VOLATILES** Analyst: JMP 0.32 10 1/31/2014 12:31:43 PM R16424 Benzene ND mg/Kg 10 1/31/2014 12:31:43 PM R16424 Toluene ND 0.32 mg/Kg Ethylbenzene 0.69 0.32 mg/Kg 10 1/31/2014 12:31:43 PM R16424 10 1/31/2014 12:31:43 PM R16424 Xylenes, Total 2.3 0.64 mg/Kg 96.2 80-120 %REC 10 1/31/2014 12:31:43 PM R16424 Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 2
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1401C21

Date Reported: 2/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	: Animas Environmental	Client Sample ID: SC-5 Collection Date: 1/30/2014 2:10:00 PM											
Project:	COP State Gas Com A #1												
Lab ID:	1401C21-003	Matrix:	MEOH (SOIL)	Received 1	Date: 1/3	31/2014 10:10:00 AM							
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch						
EPA ME	THOD 8021B: VOLATILES					Analyst	JMP						
Benzene	e	ND	0.17	mg/Kg	5	1/31/2014 1:00:14 PM	R16424						
Toluene		0.51	0.17	mg/Kg	5	1/31/2014 1:00:14 PM	R16424						
Ethylber	izene	1.0	0.17	mg/Kg	5	1/31/2014 1:00:14 PM	R16424						
Xylenes,	Total	9.2	0.33	mg/Kg	5	1/31/2014 1:00:14 PM	R16424						
Surr:	4-Bromofluorobenzene	106	80-120	%REC	5	1/31/2014 1:00:14 PM	R16424						

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.
- Р RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C21

03-Feb-14

Client: Animas E Project: COP Stat	Environme e Gas Coi									
Sample ID 5ML RB	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: R1	6424	F	RunNo: 1	6424				
Prep Date:	Analysis Date: 1/31/2014		S	SeqNo: 4	74014	Units: mg/h	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	80	120			
Sample ID 100NG BTEX LCS	Samp	Type: LC	S	Tes						
Client ID: LCSS	Batc	h ID: R1	6424	F	RunNo: 1	6424				
Prep Date:	Analysis [Date: 1/	31/2014	S	SeqNo: 4	74015	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
loluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Kylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 4 of 4

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-	eniai Anaiysis Laborui 4901 Hawkins Albuquerque, NM 87 3975 FAX: 505-345-4 nv.hallenvironmental.c	NE 109 Sam	Sample Log-In Check List										
Client Name: Animas Environmental Work Order Nun	nber: 1401C21		RcptNo: 1										
Received by/date:	4												
		AR											
Logged By: Ashley Gallegos U 1/31/2014 10:10:0		1											
Completed By: Ashley Gallegos 1/31/2014 10:22:0	IS AM	AF											
Reviewed By: My OUSINY													
Chain of Custody													
1. Custody seals intact on sample bottles?	Yes	No	Not Present 🖌										
2. Is Chain of Custody complete?	Yes 📝	No	Not Present										
3. How was the sample delivered?	Courier												
Log In													
 Was an attempt made to cool the samples? 	Yes 🗹	No 🗔	NA 🖂										
T. Was an allempt made to cool the samples r	165 12	110											
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🖌	No	NA []										
6. Sample(s) in proper container(s)?	Yes 🖌	No											
	_												
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No											
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No LJ											
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA L										
10.VOA vials have zero headspace?	Yes	No 🗌	No VOA Viais 🗹										
11. Were any sample containers received broken?	Yes .	No 🖌											
			# of preserved bottles checked										
12. Does paperwork match bottle labels?	Yes 🗸	No	for pH:										
(Note discrepancies on chain of custody)			(<2 or >12 unless noted) Adjusted?										
13, Are matrices correctly identified on Chain of Custody?	Yes 🗹	No											
14. Is it clear what analyses were requested?	Yes 🗹	No []	Checked by:										
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌											

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?					Yes	N	o [.]	NA 🖌
ĩ	Person Notified:			Date				
	By Whom:			Via:	[] eMail	[] Phone	Fax	[] In Person
	Regarding: Client Instructions:							

- 1

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

Page 1 of 1

a data bir da

• •

Client: Animas Environmental Services LLC Mailing Address: 624 E Comanche Farmington NM 87451 Phone #: email or Fax#:				Distandard Arush Sameday. Project Name: CoP Stak Gas Com A # 1 Project #: Project Manager:				HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
QA/QC Package:				D. Wal			(8021)	Gas only)	O / MR			SIMS)		PO4,SO	PCB's						
Standard Level 4 (Full Validation) Accreditation NELAP Other			Sampler:) On ice:	payes -		+	+ TPH (Gas	RO / DR(118.1)	504.1)	r 8270 SI	5	O3,NO2,F			(AC				or NI	
Date	(Type) Time	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	1401021	BTEX +-	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Ruhhlas (V or NI)
1-30-14	350	sof	Sc-2	1402/iMaettki	Theot	-001	X														Γ
1-30-14	1405	shl	SC-4	1-402 -Freeker	Mest	-002	X								-			2			Γ
1-30-14	1410	STIL	SC-4 SC-5	140	Theat	-003	X										-				
									_										+		
												_							+	T	
-																			+		F
					1. S.	and the second second													-	-	t
Date: 30/14 Date: 30/14	Time: Time: 1720 Time: 1740 necessary	Relinquishe Relinquishe	h Wata	Received by: Received by: Received by:		Date Time 1 30/14 1720 Date Time 01/3/14 10:10 10:10 10:10		_	_					_	-	-			Triy Rud	illo	

