

Mr. Bradford Billings State of New Mexico Oil Conservation Division 1220 South St Francis Drive Santa Fe, NM 87505

RE: 2RP-2071, 2RP-2132, 2RP-2509 Tony Federal Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring July 26, 2012. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2018 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker @apachecorp.com.

Sincerely,

Larry Baker Environmental Technician SR. Apache Corporation

Attachment: Closure Report Dated September 9, 2020



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

September 9, 2020

Re: Tony Federal Battery API# 30-015-30244 Case # 2RP-2071 2RP-2132 2RP-2509

Background:

The Tony Federal Battery is located east of Loco Hills, New Mexico in unit letter K section 18 township 17S range 31E (GPS Coordinates: 32.8310056, -103.911913). The release is located in an area of no know ground water. On 10/09/2018 vertical delineation was conducted at SP 1 in one foot intervals to a depth of 8 feet utilizing a hand auger. All samples collected were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 10/11/2018 the vertical was advanced and samples were collected from 11 to 14 feet below ground surface. The sampling was stopped due to the hand auger had reached its maximum depth. All samples collected were submitted to a complete the two release areas were sectioned off in 200 square feet areas and 5 point composite samples were collected from the areas totaling 8 composite samples. All composite samples were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 10/15/2018 a hand auger was utilized to collect 1 foot composite samples at composite points 6 and 8.

A remediation plan was submitted an approved by OCD. In accordance with the plan SP 1 was excavated to a depth of 2 feet. CP 6 and CP 8 were excavated to a depth of 1 foot. On 11/19/2018 final wall samples were collected at CP 6 and CP 8. All wall samples were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 11/26/2018 final wall samples were collected at SP 1 and are referred to on lab analysis as SP7. All samples collected were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. Laboratory analysis for CP 8 west wall were above table one standards for TPH. The wall was further excavated and on 12/4/2018 a final wall sample was collected and submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. All excavated soil was hauled to a commercial laboratory for analysis of Cl-, TPH, and BTEX. All excavated soil was hauled to an OCD approved disposal facility. The excavation was backfilled with caliche to ground surface and the entire facility was upgraded with the secondary containment lined.

Apache has completed remediation to below table one standards for releases greater than 100 feet to groundwater and respectfully request closure for events 2RP-2071, 2RP-2132, and 2RP-2509.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, and Photos.

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 432-818-1000

District I State of New Mexico District II State of New Mexico Bit S. First St., Artesia, NM 88210 Euergy Minerals and Natural Resource District II Oil Conservation Division 1000 Rio Brazos Rond, Aztee, NM 87410 Oil Conservation Division District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective JMMI 1332356226 OPERATOR Name of Company Apache Corporation 873 Address 8 Ellison Laue Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	NM (3G) A G) TO COMPARE DISTRICT OFFICE IN accordance with 19,15.29 NMAC. ve Action Initial Report Final Report						
811 S. First St., Artesia, NM 88210 Oil Conservation Division 1000 Rio Brazos Rond, Aztee, NM 87410 1220 South St. Francis Dr. District IV 1220 South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective JUSTICE IV OPERATOR Name of Company Apache Corporation 873 Address 8 Ellison Laue Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	NM (3G) A G) TO COMPARE DISTRICT OFFICE IN accordance with 19,15.29 NMAC. ve Action Initial Report Final Report						
1000 Rio Brazos Rond, Aztec, NM 87410 1220 South St. Francis Dr. District IV 1220 South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective OPERATOR Name of Company Apache Corporation 873 Address 8 Ellison Lane Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	ve Action 🛛 Initial Report 🗍 Final Report						
I220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective OPERATOR OPERATOR Name of Company Apache Corporation 37.3 Contact Bruce Baker Address 8 Ellison Lane Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	🛛 Initial Report 🔲 Final Report						
Release Notification and Corrective DIMUL332356226 OPERATOR Name of Company Apache Corporation 873 Contact Bruce Baker Address 8 Ellison Lane Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	🛛 Initial Report 🔲 Final Report						
DIMUI332356226OPERATORName of Company Apache Corporation373Contact Bruce BakerAddress 8 Ellison Laue Eunice, NM 88231Telephone No. 432-6Facility Name Tony Federal BatteryFacility Type BatterySurface Owner BLMMineral Owner	🛛 Initial Report 🔲 Final Report						
Name of Company Apache Corporation 273 Contact Bruce Baker Address 8 Ellison Laue Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner							
Address 8 Ellison Lane Eunice, NM 88231 Telephone No. 432-6 Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner							
Facility Name Tony Federal Battery Facility Type Battery Surface Owner BLM Mineral Owner	121-0982						
	API No. 30-015-30244						
LOCATION OF RELEASE							
Unit Letter Section Township Range Feet from the North/South Line Feet from							
K 18 17S 31E 1385' FSL 1510	FWL Eddy						
Latitude Longitude							
NATURE OF RELEASE							
Type of Release Produced Water Volume of Release 60							
Source of Release Water transfer pump Date and Hour of Occ 11/14/13	Date and Hour of Discovery 11/14/13 at 7:15 n.m.						
Was Innucdiate Notice Given? If YES, To Whom?							
By Whom? Bruce Baker Date and Hour 11/14/ Was a Watercourse Reached? If YES, Volume Impa	cling the Watercourse.						
□ Yes ⊠ No	ening the wintercourse.						
Describe Cause of Problem and Remedial Action Taken.* 2" tee washed out and ½ inclunipple on discharge of water transfer pump. The value to transfer pu	mp was closed and connections were replaced with new.						
Describe Area Affected and Cleanup Action Taken.* Approximately 1500 square feet release all contained inside the bermed facility and lease pad. A vacuum truck was dispatched and recovered 55 barrels of produce water.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.							
<u>OIL C</u>	ONSERVATION DIVISION						
Signature: Bruce Bacher							
Printed Name: Bruce Baker Approved by Environmen	nal Specialist By Willy Demander						
Title: Environmental Technician Approval Date:	2013 Expiration Date:						
E-mail Address: harry.baker@apachecorp.com Conditions of Approval:	Attacked D						
Remediation per OCD Ru							
Attach Additional Sheets If Necessary							

Page 4 of 74

. Released to Imaging: 1/25/2023 10:32:49 AM

the second second

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesin, NM 88210 District III 1900 Rio Brazos Rond, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

RECEIVED

DEC 2 0 2013

Form C-141 Revised August 8, 2011

NM Silbnil 12857 to appropriate District Office in accordance with 19.15.29 NMAC.

District IV1220 South St. Francis Dr.1220 S. Sl. Francis Dr., Santa Fe, NM 87505Santa Fe, NM 87505								•				
Release Notification and Corrective Action												
Name of Co Address 8 Facility Name	Ellison La		OPERAT Contact Bru	FOR Ice Baker Io. (432) 631-0			al Report		Final Report			
						racinty Typ				20 016	0044	
Surface Ow	ner BLM		<u> </u>	Mineral C					APINO	30-015-:	50244	
Unit Letter	Section	Township	Range	LOCA		N OF REI	Feet from the	East/	West Line	County		
K	18	175	31E	1385'	FSL		1510'	FWL		Eddy		
			La	titude		Longitud	e					
				NAT	HRE	OF RELI	CASE					
Type of Relea	ase Oil and	Produced We	aler			Volume of	Release 25 barro of water and 5 b			ccovered 2 is of water a		ls arrels of oil)
Source of Re	ease Wate	r Tank			-		our of Occurrenc at 8:00 a.m.	e		Hour of Dis 3 at 8:00 a.		
Was Immedia	ite Notice (If YES, To	Whom?					
			Ycs	No 🗍 Not Re	quired		her (NMOCD) ar	nd Jeffe	ry Robertso	n (BLM)		
By Whom? Was a Watero						Date and Hour 12/16/2013 If YES, Volume Impacting the Watercourse.						
			Yes 🛛	No								
Describe Cau Transfer pum fluid from rele	o went dow			i Taken.* g causing the wat	cr tank (lo averflow. I	'ump was repaire	d and v	acuum (ruc	k was dispa	Iched to	o collect
Describe Arca The release an				cn.* I area. A vacuum	truck w	as dispatched	and recovered 20	0 barrel	s of total flu	id.		8
regulations all public health o should their op	operators a or the enviro- crations ha nent. In ad	re required to burnent. The a we failed to a dition, NMO	report and acceptance lequately CD accept	is true and comple d/or file certain re c of a C-141 repor investigate and re ance of a C-141 re	lcase no t by the mediate	tifications and NMOCD ma contaminatio	i perform correct rked as "Final Re n that pose a thre	iive acti port" d at to gr	ions for rele oes not relie ound water,	ases which we the oper surface wa	may en ator of ter, hun	danger Hability nan health
Signature:		Baker					OIL CONS	BERV	ATION	DIVISIO	N	
Printed Name:	Bruce Bak	cr					nvironmental Sp	Sig	; gned By	Ality,	Bra	Mist-
Title: Environ	mental Tec	hnician	<u> </u>		^	pproval Date	N 0 2 2014		Expiration D	alc:		
E-mnil Addres	s: larry.bak	er@apacheco	rp.com		c	onditions of A	pproval:			Attached	Π	
Date: 12/20/20				: (432 <u>) 631-698</u> 2			oer OCD Rule &				يى 	
Attach Additio	mal Sheet	s II Necessai		T	like approval by BLM. <u>SUBMIT REMEDIATION</u> 							

February

2014

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

Received by OCD: 9/9/2020 1:44:05 PM

District 1 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Azteo, NM 87410 <u>District IY</u> 1220 S. St. Francis Dr., Santa Fo, NM 87505

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

SEP 2 2 2014

Form C-141 Revised August 8, 2011

SubmiREGATIVEDopriate District Office in accordance with 19.15.29 NMAC.

NM OIL CONSERVATION ARTESIA DISTRICT

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

Release Notification and Corrective Action												
nABI	421102	19023				OPERATOR 🛛 Initial Report 🔲 Fina					Final Report	
Name of Co	ompany A	Contact Bruce Baker										
Address 23	50 W Mai	5	Telephone No. (432) 631-6982									
Facility Na	me Tony l	Federal Batte	агу	·····		Facility Typ	e Baltery					
Surface Ow	mer BLM			Mineral C	Dwner	<u> </u>			API No	. 30-015-3	30244]
<u> </u>	LOCATION OF RELEASE											
Unit Letter	Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County											
K 18 17S 31E 1385' FSL 1510' FWL Eddy												
LatitudeLongitude												
	NATURE OF RELEASE											
Type of Rele	ase Oil and	Produced We	nter			Volume of	Release 150 ba				40 barr	els of water
						of water an	d 40 barrels of oi	<u>0</u>		ncis of ail		
Source of Re	lease Wate	r and Oil Tanl	C			Date and H 9/19/2014	our of Occurrenc	e		Hour of Dis at 4:00 a.m		1
Was Immedia	te Notice G					If YES, To	Whom?			·	<u> </u>	
			Yes 🗌	No 🗍 Noi Re	equired	Mike Brate	her (NMOCD) at	nd Jim A	unos (BLM	i)		
By Whom?			· —				our 9/19/2014 at					
Was a Water	course Keac		Yes 🛛	No		IFYES, Vo	lume Impacting t	he Wate	rcourse.			
If a Watercou	rse was Inv	acted Descri	he Fully *					<u>_</u> .				
Describe Caus A short in the to overflow.	electrical p	anel caused a		Taken.♥ lage at facility. Ti	he powe	r outage caus	ed all the transfer	. brundes	and Lact u	nit to fail re:	ndting	in the tanks
Describe Area The release are				en.• area and lease pa	id. A va	cuum truck w	as dispatched to	pick-up	standing A			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.												
	•	÷ 1					OIL CONS	ERVA	TION	DIVISIO	N	
Signature:	Bruce	Bale	1			19	Signed By	M	He B	Castolist		
Printed Name:	Bruce Bak	er			^	pproved by E	nvironmental Spo	ectatist:				
Title: Environ	mental Tecl	hnician			A	pproval Date:	9123/14	Е	piration D	ato:		
E-mail Addres	s: larry.bak	er@apacheco	rp.com			onditions of A	••			Attached	0	
Date: 9/22/201							D.C.D. Rules					
Later Than: 10/23/14 2RP-2504												

2RP-2509

Received by OCD: 9/9/2020 1:44:05 PM

Page 6 of 74

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	none (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 📈 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<u>Characterization Report Checklist</u>: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Z Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Page 3

Received by OCD: 9/9/202	0 1:44:05 PM State of New Mex	vico	Page 8 d				
	Oil Conservation Di		Incident ID				
age 4	On Conservation Di	VISIOII	District RP				
			Facility ID				
			Application ID				
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Larry B Signature:	rmation given above is true and compl required to report and/or file certain re- ment. The acceptance of a C-141 repo- gate and remediate contamination that p of a C-141 report does not relieve the op aker	elease notifications and perform c rt by the OCD does not relieve th bose a threat to groundwater, surf perator of responsibility for comp 	orrective actions for relea e operator of liability sho ace water, human health diance with any other fed ental Tech SR.	ases which may endanger ould their operations have or the environment. In			
email: larry.baker	Dapachecorp.com	Date: <u>9/9/2020</u> Telephone: <u>432-631-6982</u>					
OCD Only Received by:		Date:					

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 9 of 74

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

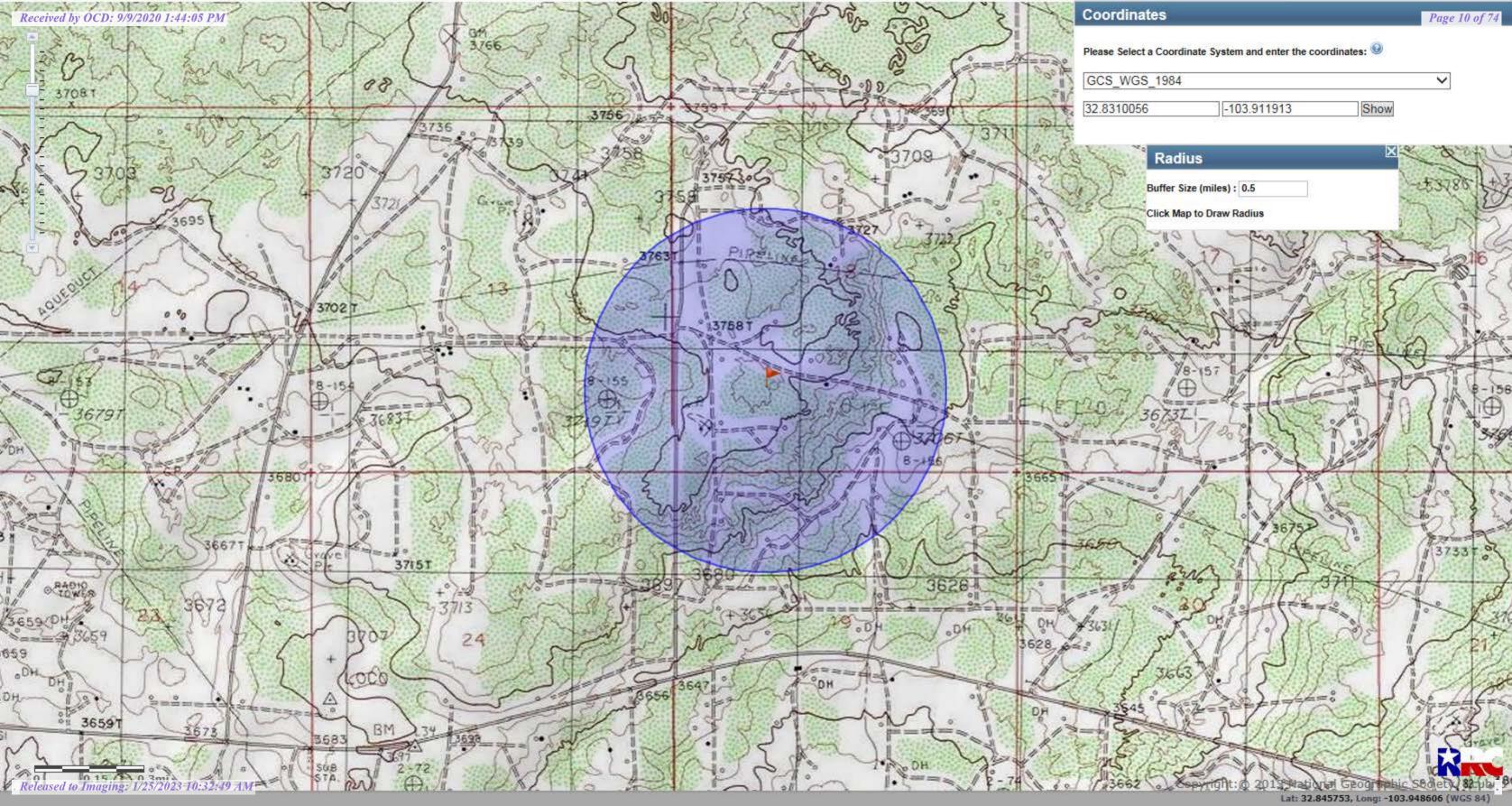
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \square Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker	Title: Environmental Tech SR.						
Signature: Larry Baker	Date: 9/9/2020						
email: <u>larry.baker@apachecorp.com</u>	Telephone: 432-631-6982						
OCD Only							
Received by: OCD	Date: 9/20/2020						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by: <u>Ashley Maxwell</u>	Date: 1/25/2023						
Printed Name: Ashley Maxwell	Title: Environmental Specialist						



GCS_WGS_1984		~
32,8310056	-103.911913	Show



					Tony Federal Ba		· · · ·			<u> </u>
SP 1	Depth	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
	0-6"	352	<0.050	<0.050	<0.050	<0.150	<0.300	<50	3850	1030
	1'	3720	<0.050	<0.050	<0.050	0.195	< 0.300	<50	3150	613
	2'	624	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	48.4	12.2
	3'	1260	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	184	37.2
	4'	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10	79.3	<10
	5'	816	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	147	32.2
	6'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
	7'	1140	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.8	<10
	8'	1150	<0.050	<0.050	<0.050	<0.150	<0.300	<10	1920	474
	11'	1180	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	386	120
	12'	896	<0.050	<0.050	<0.050	<0.150	<0.300	<10	269	68.3
	13'	864	<0.050	<0.050	<0.050	<0.150	<0.300	<10	366	95
	14'	736	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	90.4	14.7
					Composite Sam	ples				
CP 1	0-6"	672	<0.050	<0.050	<0.050	<0.150	<0.300	<10	83.4	22.1
CP 2	0-6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	850	195
CP 3	0-6"	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10	233	76
CP 4	0-6"	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
CP 5	0-6"	1460	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
CP 6	0-6"	1400	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	1400	315
	1'	2680	< 0.050	<0.050	0.126	<0.150	<0.300	<10	405	89
CP 7	0-6"	2320	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	118	38.4
CP 8	0-6"	352	<0.050	<0.050	<0.050	<0.150	< 0.300	<50	2000	411
	1'	304	< 0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	297	65.5

Tony Federal Battery

.

				Fir	nal Wall Samples					[
Date	SP 6 (CP 6)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/19/2019	N Wall	368	0.091	<0.182	<0.025	<0.075	0.273	<50	456	173
11/19/2019	S Wall	288	<0.025	<0.025	<0.025	<0.075	<0.150	<10	11.6	<10
11/19/2019	W Wall	1470	<0.025	<0.025	<0.025	<0.075	<0.150	<10	<10	<10
11/19/2019	E Wall	1760	<0.025	<0.025	<0.025	<0.075	<0.150	<10	<10	<10
-										
Date	SP 7 (SP 1)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/26/2019	S Wall	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	126	63.9
11/26/2019	N Wall	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10.2	<10
11/26/2019	W Wall	16	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10
11/26/2019	E Wall	272	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10
Date	SP 8 (CP 8)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/19/2019	N Wall	480	<0.025	<0.025	<0.025	<0.075	<0.150	<10	39.9	11.8
11/19/2019	S Wall	1380	<0.025	<0.025	<0.025	<0.075	<0.150	<10	666	138
11/19/2019	W Wall	1480	<0.025	<0.025	<0.025	<0.075	<0.150	<50.0	3190	658
12/4/2019	W Wall	960	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	77.7	22
11/19/2019	E Wall	1170	<0.025	<0.025	<0.025	<0.075	<0.150	<10	991	272



October 10, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/18 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

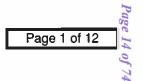
Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager





APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6" (H802877-01)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 80218	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate 4-Bromofluorobenzene (PIL	115 9	6 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	352	16.0	10/10/2018	ND	464	116	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	3850	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	1030	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	101 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	243 9	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and chem's exclusive remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whitspever shall be deemed weved unless made in writing and racewed by (claims), including those for negligence and including those for incidental or consequential damages, including those for incidental or consequential damages, including those of profits incruding. Webchaits affect on pleton of the applicable servee. In no event shall Cardinal are lable for incidental or consequential damages, including without hump (30) days after completion of the applicable servee. In no event shall Cardinal are lable for incidental or consequential damages, including without hump (30) days after completion of the applicable servee. In no event shall Cardinal we lable for incidental or consequential damages, including without hump (30) days after completion of the applicable servee. In no event shall cardinal we lable for incidental or consequential damages, including that is blacked and applicable and any other served by claim and incidental or consequential damages, including approval of or related to the performance of the servees hereunder by Clardinal, regardless of whether such claim is based upon any of the above stated reasons or comense with to the samples identified above. This report shall not be reproduced except in full with written approval of Clardinal Laboratories.

Colog 2 there -

Celey D. Keene, Lab Director/Quality Manager

Page 15 of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H802877-02)

BTEX 8021B	mg/	kg	Anaiyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Totai Xylenes*	0.195	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	10/10/2018	ND	464	116	400	3.51	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	3150	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	613	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	151	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and chent's exclusive remady for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for neglegence and any other cause whitspever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affliables or successors arong out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples denoted above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colorg 2 trans -

Celey D. Keene, Lab Director/Quality Manager



Page 16 of 74

Received by OCD: 9/9/2020 1:44:05 PM



APACHE CORP - HOBBS 8RUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H802877-03)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.5 9	69.8-14.	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	624	16.0	10/10/2018	ND	448	112	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DR0 >C10-C28*	48.4	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	12.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	1049	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usbäry and Damages. Cardinal's bablity and chen's exclusive remedy for any dawn arising, whether based in contract or tort, shall be limited to the amount plud by chent for analyses. All claims, including those for negligence and any other cause whitesomer shall be deemed waved unless made in writing and received by claims, including those for negligence and including, without instances instantiations business instantiations of use, or loss of use, and writing and including those. This reportabilities expressions anong out of or related to the performance of the services hereunder by Clarishia, regardless of whether such dawn sbased uncertainties instantiations or otherwave. Result related only to the samples information of the services interruptions.

Colorg 2 trans-

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H802877-04)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/09/2018	ND	1. 9 4	96.9	2.00	2.63	
Toluene*	<0,050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.2	69.8-14	2						
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	184	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	37.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	118 9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	126 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Candinal's labelity and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and recoved by claims, including those for incidental damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by claims, is subsidiaries, affiliates or successors anong out of or related to the performance of the services hereunder by Claimslaw, regularities of whether such claims based oney stated reasons or otherwise. Results relate only to the samples domined faultified bore. This reproduced incigent half web written approval of Claimsla Laborations.

Colorg 2 A there and

Celey D. Keene, Lab Director/Quality Manager

Page 18 of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H802877-05)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95_7	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	816	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	< 10.0	10.0	10/09/2018	ND	196	97. 9	200	2.16	
DRO >C10-C28*	79.3	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	2						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Labeley and Damages. Cardnal's liabelity and client's exclusive remedy for any dawn ansing, whether based in contract or tort, shall be kinnted to the amount paid by client for analyses. All dawns, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by client, fits auditable to consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its auditabanes, affiliates or successions aroing out of or instated to the performance of the services hereunder by Cardinal, regardless of whether such dams based upon any of the above stated reasons of others or other services.

Colog 2 Ariene -

Celey D. Keene, Lab Director/Quality Manager

Page 19 of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 5' (H802877-06)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate 4-Bromofluorobenzene (PIL	98 .7	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	816	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 5	% Recovery	True Value QC	RPD	Qualifie
GR0 C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	147	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	32.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and chent's exclusive remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for nepligence and any other cause whittpeever shall be deemed waved unless made in writing and received by claims, activation within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labele for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or bass of iponfits incidentified above. This report shall not be reproduced eccept in full with internets approval of Cardinal Laboratories.

Colog 2 Areano -

Celey D. Keene, Lab Director/Quality Manager

Page 20 of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H802877-07)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/09/2018	ND	1. 9 4	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifie
Chloride	1170	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	<10.0	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usabley and Damages. Cardinal's lability and chent's evoluoive remedy for any claim ansing, whether based in contract or tort, shall be immode to the amount paid by clent for analyses. All daims, including those for negligence and any other cause whereavever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for inodersal or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborestones.

Colog 2. trens

Celey D. Keene, Lab Director/Quality Manager

Page 21 of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 7' (H802877-08)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 96.0%

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	22.8	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142							
Surrogate: 1-Chlorooctadecane	95 5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's tablety and chent's evolusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cleant for analyzes. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and recoved by Cardinal within thirty (30) days after completion of the appricable service. In no event shall Cardinal be lable for incidential damages, including, without lamitation, business interruptions, loss of use, or loss of profits nourred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the ebove stated reasons to observate. Results relate only to the samples identified above. This report shall not be reproduced except in full with written apprival of Cardinal Laborationes.

Colorg 2 Areano -

Celey D. Keene, Lab Director/Quality Manager

of 74



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/09/2018	Sampling Date:	10/09/2018
Reported:	10/10/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 8' (H802877-09)

Released to Imaging: 1/25/2023 10:32:49 AM

BTEX 8021B	mg/	ikg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

7 a Bay oc	nason	reporting cinic	7 mary 200		00	the meeting is	the table ge	TO D	Quanta
Chloride	1150	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	1920	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	474	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	95 3	% -11-1-12	?						
Surrogate: 1-Chlorooctadecane	148	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liable, and Damages. Candinal's bablity and client's eviluative remedy for any dam ansing, whether based in concract or tort, shall be limited to the amount paid by client for analyses. All clients, including those for megingence and any other cause whitescener shall be deemed waved unless made in whiting and received by client hitty (30) deeps after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, whitting limitscore, bunness interruptions, loss of inputs or provide on the samples of or related to the performance of the samves hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or coherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Colleg 2 trans

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Received by OCD: 9/9/2020 1:44:05 PM

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
•••	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

R_EASE NOTE: Uablety and Damages. Cardinal's labelity and client's evolutive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatesover shall be deemed waved unless make in wrong and received by claims, including those for negligence and including, wrbite limitation, busitess instangebon, boss of uses or loss of profits incurred by cleint, its subsidianes, affliktes or successors anong out of or related to the aperiormance of the services hereunder by Cardinal's regardless of whether busite dam to based upon any of the above stated resons or otherware. Results relate only to the samples transfer approximation contracts and approval of claims laborationes.

Colorg 2 there -

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 12

2

Received by OCD: 9/9/2020 1:44:05 PM

CARDINAL Laboratories

Page 12 of 12

Page 25 of 74

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-247																	ł								
Company Name						_			121-134		:77	LL TO	Constructed	i.								JEST				
Project Manage								P.(0. #:		- · · ·			<u> </u>	T			T							-	
Address: 🛃	toh-							Co	mpa	anv:				1			1									
City: Ho	665 State: NMZip: 88240				Attn:				1																	
Phone #:	Fax #:	F		<u>v o</u>					Idres					1												
Project #:	Project Owne							Cit						1	ľ											
Project Name:									ate:			7:		1												
	n: Tony Federa Tank	R	2	16						#.		Zip:		1												
Sampler Name:	- Corg reacted land		4.1	/ _ /	/				x #:					1												
FOR LAB USE ONLY		Г	Г		MA	TRI	x	r a		SEF	۲V.	SAMPL	NĠ	1	12											
Lab I.D. <u>+</u> 1802.877 1 2 3 4	Sample I.D. SPIQ 6" SPIQ 1' SPIQ 2' SPIQ 3' SPIQ 3'	COMP.	<pre>////#CONTAINERS</pre>	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	/ / /		DATE 10-5-15 10-9-15 10-9-15 10-1-15	TIME /2:49 /:030 /:1000 }:1600		EX7. 74	BTEX										
	SPIQ4'	17	F								-ł	10-9-18	(1:23 pa		<u> </u>	1				_ _	_					
	SP105 SP106'	G	 	┝─┤						1	-	10-9-18	1:432		<u> /</u>	1	.	-	_		-			\rightarrow		
	SPIQ7'	G	ŀ,		+	1			1	7	+		<u>1:50 pr</u> 1:55 pr		<u> (</u>	+				_				<u> </u>		
9	SP 10 8'	G G	f	┝─┤		+		_		-	-		2:00 PV		$\frac{1}{1}$	/					_ -					
`	5.1 1000	4	É					_	\vdash	-	-/	<u>(0·9-14</u>	1.001		<u> </u>					+			_ -			
analyses. All claims include service. In no event shall C	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	deemed without and had Re	d waive at limita L regar CEIN	ed unle iton, b views o /ed	ther base ss made issiness in f whethe By : By : By : ample cool	e Col	ng and tions, k cleim b d d d d d d d		fuse, o ed upor	Cardin of loss of a large of	af pro of the	ithin 30 days after lifts incurred by d	r completion of t fient, its subsidie	he applica iries, ie. Sult: It: S:	- Ye	s (No No	Add'	I Phor I Fax #	¥:	h					
	- Bus - Other: 3.6c	#	97							70	9	-			2											

. Released to Imaging: 1/25/2023 10:32:49 AM



October 12, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 13:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Received by OCD: 9/9/2020 1:44:05 PM

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 11' (H802911-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 95.6 % 69.8-142

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 5	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/12/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	386	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	120	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	108	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labeling and Damages. Cardinal's labeling and chemit's endusive reimedy for any dawn ansing, whether based in contract or tort, shall be lamated to the amount pad by chem for analyses. All claims, including those for negligence and any other cause whatsoever shall be detined waved unless made in writing and received by Catennal writing those for incidence and including, writing, immutipation, business intermuppons, loss of use, or loss of profits nourised by divert, its sublicates or successors among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dawn is based upon any of the above stated reasons or otherwes.

Colleg i stream -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 12' (H802911-02)

BTEX 8021B mg/kg Analyzed By: ms Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte <0.050 0.050 10/11/2018 ND 2.14 107 2.00 0.672 Benzene* 10/11/2018 2.03 102 2.00 0.830 Toluene* < 0.050 0.050 ND 2.01 101 2.00 0.688 <0.050 0.050 10/11/2018 ND Ethylbenzene* 10/11/2018 ND 6.00 100 6.00 0.256 Total Xylenes* <0.150 0.150 **Total BTEX** < 0.300 0.300 10/11/2018 ND

Surrogate: 4-Bromofluorobenzene (PIE 95.3 % 69.8-142

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/12/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	269	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	68.3	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103 9	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labelity and Damages. Cardinal's habitity and client's exclusive remedy for any daim ansing, whether based in contract or tort, shall be limited to the amount plad by client for analysis. All claims, including those for negligence and any other cause whetpore that be deemed waved unless made in whong and received by claims within thirty (30) days after completion of the approache service. In no event shall cardinal be liable for incidental or consequential damages, including, whother, business interamptions, loss of use, or loss of profits nouries by business, and there are sorted water or sorted water or sorted water or sorted water or consequential damages, and use, or loss of profits nouries by client, or subschames, and there is only of or above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborstones.

Colog 2 . trans-

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 13' (H802911-03)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 10/12/2018 ND 2.14 107 2.00 0.672 <0.050 0.050 10/12/2018 2.03 102 2.00 0.830 Toluene* ND 10/12/2018 ND 2.01 101 2.00 0.688 Ethylbenzene* <0.050 0.050 Total Xylenes* <0.150 0.150 10/12/2018 ND 6.00 100 6.00 0.256 Total BTEX 10/12/2018 <0.300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PIE 96.7 % 69.8-142

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B S	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/12/2018	ND	400	100	400	0.00	
TPH 8015M	8015M mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	366	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	95.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	92.6 9	6 41-142)						
Surrogate: 1-Chlorooctadecane	109 9	6 37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labeling and Damages. Cardinal's labeling and client's endusive remaining in any dawn ansing, whether based in contract or tort, shall be lamited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitescener shall be deemed varies made in writing and received by client, its subsidianes, affiliates or contractions of the applicable service. In no event shall Candinal be labeling for incidential consequential damages, including, without limitation, business interruptions, loss of use, or loas of profits incurred by client, its subsidianes, affiliates or successors aroung out of or related to the performance of the services hereunder by Candinal, regardless of whether such diam's based by one subter descores or otherwase. Results relate only to the samples identified above. This reproduced except in full with metan approval of circuinal Laboration.

Colorg " trans -

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 14' (H802911-04)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank 8S % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 10/12/2018 ND 2.14 107 2.00 0.672 0.830 Toluene* <0.050 0.050 10/12/2018 ND 2.03 102 2.00 2.01 101 < 0.050 0.050 10/12/2018 ND 2.00 0.688 Ethylbenzene* 10/12/2018 ND 6.00 100 6.00 0.256 Total Xylenes* < 0.150 0.150 **Total BTEX** <0.300 0.300 10/12/2018 ND

Surrogate 4-Bromofluorobenzene (PIE 95.4 % 69.8-142

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qual fier
Chloride	736	16.0	10/12/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	< 10.0	10.0	10/12/2018	ND	190	95.0	200	0.209	
DR0 >C10-C28*	90.4	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	14.7	10.0	10/12/2018	ND					
Surrogate: 1-Chloroociane	91.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	90.1	% 37_6-14	7						

Cardinal Laboratories

PLEASE NOTE: Liability and Damages, Candinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be lamited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whateoerve shall be deemed verwed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable serves, in no event shall be fable for modernal or consequential damages, including, which within the serves, binding those of the serves and received by Cardinal within their (30) days after cause whateoerve shall be deemed verwed unless made in writing and received by Cardinal within their (30) days after cause including, business, including those of uncertainty of the serves and received by Cardinal within their (30) days after cause characon, business, including those of uncertainty of the biotection, business, including those of uncertainty of the serves after cardinal weight of the serves and received by Cardinal, regardless of whether such diams of beed upon any of the biotectisted except of the serves.

Contra 2 tranna -

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below
•••	Insufficient time to reach temperature.
22	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Released to Imaging: 1/25/2023 10:32:49 AM

PLEASE NOTE: Labeling and Damages. Cansinal's liabeling and chert's exclusive remedy for any daim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, inducing those for negligence and any other cause whatsoever shall be deemed waved unless made in wrhing and received by claims, inducting wrhing tarties approximate to the approximate service. In no event shall carenal be liable for nodenait or consequential damages, including, wrhing limits intervention of the approximate to the performance of the services hereaunder by Carenal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples dentified above. This report shall not be reproduced e-cept in full with written approval of Carenal Laborationes.

Codes introno --

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 7



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Nam								B	ILL TO		2						IS R	COL	ECT				7
Project Manage	er: Bruce Baleer					P.0), #:				T	T	1						<u></u>				4
Address:						Co	mpan	v :			1		1										
City: Llub	State: N	MZip:	96,	346)	Att																	
Phone #:	Fax #:		00		.	Ad	dress			<u> </u>													
Project #:	Project Ow	ier:			.	Ch		-			1												
Project Name:						Sta		_	Zip:														
Project Locatio	: Tony Feb Tank	Pro J	1	-11					<u></u>		1												
Sampler Name:	n: Tony Feb Tank doc. Quescrete	-		- - - -		Fax			······		1												
FOR LAB USE ONLY				MAT	RIX		PRESE	RV	SAMPL	ING	1		I I										
		N.		†		ļ		\square			1	0	10										
		(C)RAB BR (C)OMP.		H	OIL		_	ĺ	1		1	11			1								
Lab I.D.	Sample I.D.	NIN NIN	Ň	X I		5.5	D SE		8	i.			12	1									
180400		E S	S		D D	Ψ		OTHER	1				行	J									
1802911	(0)		K	<u>S</u>	SL GL	Ē	20	Ē	DATE	TIME		1 U	6	4									
0	SPI CIL	<u> </u>					7		10/11/18	9:/0/10	\Box			<u> </u>	1		+		+	+	+	+	1
23		GI	┨─┼╴				Y			9:24	\sim						1	1					1
Y	SP 1 & 13' SP 1 & 14'	<u>e</u> i				-			10/11/19	9:4.200								1	-	-			1
	01 014	61				[-			olina	4:520			1									1	1
	<u> </u>	-}-}-			_			_						 	<u> </u>						1		1
		╂╌╂╼														-			_				
		╺╂─╂─						-							ļ		I						
		-1-1-						-			——- 				┠		<u> </u>						
		-1-1				- -				<u> </u>					<u> </u>		·	 					
EASE NOTE: Linking on alyses. All claims includes	d Damages. Continents hability and cleart's auchative remody in a those for exclusion and any other clears	any chien area	ig whethe	r bined is	contract o	r lot, s	ial to be	vied to	the encoded per	d by the chert ter (la la				[i							
vice. In no event shall California or percentation	archeal too liable for incidential or consequential damages, including out of or reliable to the performance of mentions because in	ng william broke	ine, but	naide in s	uplicite, lo	ecologic es of se	l by Cardi e. or lass	el pe	Him 30 days allo rifls incurred by c	r completion of the Serii, its websitian	e applicate Int.	t.											
elinquished By		Receiv	red B)		ah pinim in	bened a	igen, any	of the	above stated reads	Phone Res	aulte	O Yes		No	Add'l		4						
11	Time:	1			2	1	1.5			Fax Result REMARKS		C Yes			Add'l I		w:		_	- 10			
elinquished By	Un Scalde 1. Up	Receiv			Bo	T					-	• ,	^		ų –				1000				
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0101011	1	70	1:	b	1		1	D	L	nA.	1	K	us	И								P.
Poruce 1		40	U	N,	N	U	N	U	m	-													Ê.
Delivered By:	(Circle One) Bus - Other 3.46/#		Sar	nple C	ves No	n	CHE	Ç de	BX:														2



October 12, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by www.tceg.texas.gov/field/ga/lab accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredite

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Received by OCD: 9/9/2020 1:44:05 PM

Celez L. Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 1 @ 6" (H802910-01)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* <0.050 0.050 10/11/2018 ND 2.14 107 2.00 0.672 <0.050 10/11/2018 102 2.00 0.830 Toluene* 0.050 ND 2.03 2.01 101 0.688 Ethylbenzene* < 0.050 0.050 10/11/2018 ND 2.00 Total Xylenes* <0.150 0.150 10/11/2018 ND 6.00 100 6.00 0.256 **Total BTEX** 10/11/2018 < 0.300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PIE 95.8 % 69.8-142

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	83.4	10.0	10/11/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	22.1	10.0	10/11/2018	ND					
Surrogate: 1-Chlorooctane	91.5 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	96.4 9	6 37 6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labeley and Damages. Cardinal's labelety and chent's endusive remedy for any dam ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All chams, including those for negligence and any other cause whatscener shall be deemed waved unless made in writing and incremed by calent in contract or tort, shall be limited to the applicable service. In no event shall Cardinal be labte for incidence or consequential damages, including, writiout limitation, business interruptions, loss of use, or loss of profits incimed by client, its subschames, affliates or successors among out of or inlated to the performance of the services hereunder by Cardinal, regardless of whether such dam is based upon any of the shore-starter daspoints or otherwase. Resulting and the shore that is cardinal approvide Cardinal Laborational Laborationes.

Colog 2 trees-

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 2 @ 6" (H802910-02)

BTEX 8021B	mg/	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2,01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total 8TEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 96.6 % 69.8-142

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC			 .			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qua fier
GRO C6-C10*	<10.0	10.0	10/11/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	850	10.0	10/11/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	195	10.0	10/11/2018	ND					
Surrogate: 1-Chlorooctane	86.8 9	% 41-142)						
Surrogate: 1-Chlorooctadecane	125 9	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labeley and Damages. Cardinal's babiety and chen's evidupove remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty [30] days after completion of the applicable service. In no event shall Cardinal be lable for inodental or consequential damages, including those of prefits incurred by client, its subsciences, alfidates or successors anality of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with initial approval of Cardinal Laborationes.

Colorg " triene -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 3 @ 6" (H802910-03)

BTEX 8021B mg/kg Analyzed By: ms Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC rpd Qualifier Analyte <0.050 0.050 10/11/2018 ND 2.14 107 2.00 0.672 Benzene* 0.830 Toluene* <0.050 0.050 10/11/2018 ND 2.03 102 2.00 2.01 101 < 0.050 0.050 10/11/2018 ND 2.00 0.688 Ethylbenzene* ND 6.00 100 6.00 0.256 Total Xylenes* <0.150 0.150 10/11/2018 **Total BTEX** < 0.300 0.300 10/11/2018 ND

Surrogate: 4-Bromofluorobenzene (PIE 95.4 % 69.8-142

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	233	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	76.0	10.0	10/12/2018	ND					
Surrogate 1-Chloroociane	89.9	% 41-142)						
Surrogate: I-Chlorooctadecane	102 9	% 37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsorver shall be deemed verved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the encounties that Cardinal be limited to contract a state completion of the applicable service. In no event shall Cardinal be limited to the encount paid by client for analyses, including those for negligence and including, without limitation, business interruptions, toss of uses of profils inclured by cherit, its subsidianes, atfliates or successors raising out of or related to the performance. If the services hereunder by Cardinal, regardless of whether such client is based upon any of the biotexes. Result selection by the sample admitted above. This report shall not be reproduced except in full with writes approval of Cardinal Laborations.

Colog intrine -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 4 @ 6" (H802910-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 96.0 % 69.8-142

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2. 9 7	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	88.9	% +1-1+2	•						
Surrogate: 1-Chlorooctadecane	90.7	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and chenc's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by claim for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed varies unkest in wrong and including choice for anglegence and including, whost limitation of the applicable service. In no event shall cardinal be labeling to consequential damages, including, whost limitation of or related to the performance of the services hereauder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Resets relate only to the samples related by one in the provision of claims and cardinal be labeling or consequential damages, and upon any of the above stated reasons or otherwise. Resets relate only to the samples relateded above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colorg 2. tracas -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 5 @ 6" (H802910-05)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate 4-Bromofluorobenzene (PIE 95.3 % 69.8-142

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.0	% 37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labeley and Damages. Cardinal's fabelity and ckent's exclusive remedy for any dam ansing, whether based in contract or tort, shall be kinded to the amount paid by ckent for analyses. All claims, including those for negligence and any other cause whetscener shall be deemed waved unless made in writing and received by claimal based within thirty (30) days after completions of the applicable service. In no event shall cardinal be liable for inclanding choice for megligence and including, without limitation, business interruptions, loss of usis of using basedimes, affiliates or successors anong out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the share's stated claims.

Colog 2 trens --

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 11



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 6 @ 6" (H802910-06)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 96.5 % 69.8-142

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/12/2018	ND	1 9 4	97.1	200	2.97	
DRO >C10-C28*	1400	50.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	315	50.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	87.3 9	6 41-142	2						
Surrogate: 1-Chlorooctadecane	133 9	6 37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labins and Damages. Cardinal's labity and elent's endurone remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All dams, induding those for negligence and any other cause whatsoever shall be deemed wined wiles made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be liable for incidencial or consequencial damages, including, without limitation, business interruptions, limit of use, or lieus of profits incurred by client, its subsidianes, affliates or successors among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dawn is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Colorg it there -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 7 @ 6" (H802910-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 95.4% 69.8-142

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	118	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	38.4	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.2	% 37_6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labdry and Damages. Cardinal's labdry and client's endusive remedy for any claim ansing, whether based in contract or ton, shall be limited to the amount paid by chert for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wined unless made in wrong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by thent, its subsidianes, afflicates or successors aroing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colorg intrano -

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/11/2018	Sampling Date:	10/11/2018
Reported:	10/12/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CP 8 @ 6" (H802910-08)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 94.2 % 69.8-142

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	2000	50.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	411	50.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	169 9	37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Candinal's babliny and chent's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in wrong and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subsidianes, affiliates or successions among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colorge trees and

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD ₁ . The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
	Insufficient time to reach temperature.
÷	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Released to Imaging: 1/25/2023 10:32:49 AM

PLEASE NOTE: Uablety and Damages. Cardinal's bablety and client's e-idusive remedy for any daim ansing, whether based in contract or tort, shall be finited to the amount paid by client for analyses. All daims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by client for administration of the applicable served. In no event shall cardinal be lable for incidental or consequencial damages, including, webout limitation, business interruptions, limit of use, or loss of profits incurred by client, its subsciences, affaites or successory arising out of or related to the performance of the serveces hereunder by Cardinal, regardless of whether such dam's based upon any of the above stated reasons or otherwee. Results relate only to the samples destinable and that destinable in the most and the stated reasons or otherwee.

Colog intrano -

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 11



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Rocale								BILL TO ANAL							Ver	2 0	EOL!	TOT			-						
oject Manage	Brun B	Alex	-	_			-	P.O. #:					T -	Т	-			TOR			=51	T	T	—			
idress:	0.00-0				<u> </u>		- +	Com	-		-	-					1										
v Hobles	<	State: 11M2	MZIP: 88240			- 1	Attn:																				
ione #:		Fax #:		5			- 1	Addn		6				-											1		
oject #:		Project Owner:						City		-																	
oject Name:							- 1	State			Zip:							- 11		-1				1			
oject Location	Tone L	n), Tank	0	لمه د	20			Phon			с.р.						1			-							
mpler Name:	don Que	Reelen				7		Fax #																			
DR UNB USE ONLY			Т	Г	M	ATRI			RESE	RV.	SA	MPLI	NG			3								1	1		
Lab I.D.	Sample ୦.୧ (ଲ (I.D.		GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE	(CE) COOL	OTHER	DA		-	ME	5	5470		X III									
1	UPI DO	e''		+		-		+	1					7An	1			1									
2345978		lir C	ľ			• 15		+	E					Sin	1		P	1									
2	CP S G		1			-		+	1	ł	du	/18	RC	TAm	1	1	Þ	-	-	-			-	-	-		-
5		<i>a</i> '	- 1-	╀╌		-	-	÷	1	ľ	di	18	10%	201	~	1	R	·	-	+	-		-	-	-	1	+
10		· .	4	1		20		÷	1	ľ		10	10	80.1		1	1			+	-	-	-	-	<u> </u>		-
4	CP7 Q	6 ²		+		+		t	1	ľ	Jul.	10	(r):	/An	1		1			+		-		-			+
- 8	CP 7 6 CP 8 6	6"	1	t			11		1	ť	ie hi	10	100	37A4	1	1	+		-	+		;;=;		-		-	+-
			Ť				tt	t	1	ť	Opri	119	· V.	20114			t	Ì	+	+							ł
			T			t	i t	t		1					-		-	1	-					-			-
LEE NOTE: Liability and real. All claims including	Compos. Continet's lability and table for negligence and any oth	client's exclusive numerly for any a or come wholesever shall be deer	inin an tail an	ing set had set	ellter basi		nivaci or stand s	litel, she calend h	il be to to Cont		the area	wert paid	by the	clent for 1 time of the	he		-	-				_		-			<u> </u>
co. In no event shall Car fee or presentations arising	cleaf in finite for incidental or car a set of provided to the performan	menuntel damages, including will the of entrices increantier by Gord	hout here not here	itation. I		niamapi r anch i	ione. Ine	of sea	or loss	el prol	lle incur	ed by d	hard, its	subsider		-											
linguished By	n'	Dete:/11/18	lece	ved	By:			,					Pho: Fax	ne Result Result ARKS	:	C Ye		No No	Adi	d'i Fa	ione # ix #;	t:					
linguished By	in elle lerf,	10/11/18 F	legel	ived	By:		11		335					E.	nA	il	k	es:	\mathcal{L}	5							
Bruco	Baker	Time: 30pm	ar	20	i	1	90	11	11	20	1							-									
alivered Dur	(Circle One)		p	1 2	M Sample	Cor	W	v L	CHE	de	DAY:			1	R	C	h										
	Bus - Other: 3	110 1 11 0	U	- C	Cool	-	-	- N	-	7. 7		-					F 1										

1 Jo Et 380 de minel cannot accant verhal channes Places fav written channes to (575) 302, 107



October 16, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/15/18 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Received by OCD: 9/9/2020 1:44:05 PM

Celeg Li Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/15/2018	Sampling Date:	10/15/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: COM POINT 6 @ 1' (H802956-01)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank 8S % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 10/16/2018 ND 2.27 114 2.00 0.142 Toluene* < 0.050 0.050 10/16/2018 ND 107 2.00 0.735 2.14 Ethylbenzene* 0.126 0.050 10/16/2018 ND 2.11 106 2.00 0.142 Total Xylenes* <0.150 0.150 10/16/2018 ND 6.33 106 6.00 0.151 Total BTEX < 0.300 0.300 10/16/2018 ND

Surrogate: 4-Bromofluorobenzene (PIE 109 % 69.8-142

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	10/16/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	200	100	200	3.41	
DRO >C10-C28*	405	10.0	10/16/2018	ND	192	96.0	200	1.32	
EXT DRO >C28-C36	89.0	10.0	10/16/2018	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142	?						
Surrogate 1-Chlorooctadecane	103 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's endusive remedy for any dawn ansing, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whisteners shall be deemed waved unless made in writing and received by claims, and/admail within thirty (30) days after completion of the applicable servec. In no event shall Cardinal be liable for inodertal or consequential damages, including, without limitation, busitess instemupoons, loss of use, or loss of profits inclumed by client, fis subidanes, affiliates or successors arong out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cliams based upon any of the above stated resources or otherwest.

Colleg 2. trees -

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	10/15/2018	Sampling Date:	10/15/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: COM POINT 8 @ 1' (H802956-02)

BTEX 8021B	mg/	kg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate 4-Bromofluorobenzene (PIL 98.9% 69.8-142

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	200	100	200	3.41	
DR0 >C10-C28*	297	10.0	10/16/2018	ND	192	96.0	200	1.32	
EXT DRO >C28-C36	65.5	10.0	10/16/2018	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142	ŗ						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories

PLEASE NOTE: Labelry and Damages. Cardinal's stability and client's endusive remedy for any dawn ansing, whether based in compact or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetever shall be deemed waved unless made in writing and received by claims) actuational writing and activate and annual to a special completion of the applicable service. In no event shall be liable for inoderstal or consequential damages, including, writing, writing, writing and activate and activate and activate and activate and any other based in the performance of the service by Cardinal be liable for inoderstal or consequential damages, dam is based upon any of the biotive stated response or between services here and the service between services.

Colorg 2. trans

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
•••	Insufficient time to reach temperature.
2	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Released to Imaging: 1/25/2023 10:32:49 AM

PLEASE NOTE: Liabidity and Damages. Cardinal's liability and chent's evolutive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount plad by ckent for analyses. All claims, including those for negligence and any other cause whitesover shall be determed waved unless made in writing and received by claims, whether based in contract or tort, shall be limited to the amount plad by ckent for analyses. All claims, including those for negligence and any other cause whitesover shall be determed waved unless made in writing and received by claims ansing, whether based in contract or tort, shall be limited to the applicable service. In no event shall cardinal be liable for inodercal or consequential damages, including whom they light have been and in the services herework with the light be liable for inodercal or consequential damages, claims, based upon any of the above stated reasons or otherwise. Results relate only to the samples detolfed above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Colorgi trana

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-247	Б							_																
Сотралу Name	· ADach:							2.04		E	II	LL TO						ANA	LYSI	S RE	QU	ST			
Project Manage	" Apachi "Bruce Baleser							P.O. #:																	
Address:								Company:]													
City: 6/0/21	bs State: /	(Zip	<u>:</u> ?	00	241	3		Att	<u>n:</u>															1	
Phone #:	Fax #:		Address:																						
Project #:	Project Owne	r: City:																							
Project Name:					_	Sta	te:			Zip:															
Project Locatio	n: Torry Feel French	Ē	50	1-2	* s. r		1	Pho	one	#:			<u> </u>	1											
Sampler Name:	De Currinter					2	_		c #:			_		1	-										
FOR LAB USE ONLY		6			MA	RIX			PRE	SER	<u>v</u> .	SAMPLI	NG	-	2	1									
Lab I.D. <i>H802956</i>	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:		UINEK	DATE	TIME	11		1 1 1 1	Brey								
/	Con Print 6 Q 1	С	1		1					1		10-15-18			\geq		\geq								
2	Compant 8 El	<u>C</u>	i				-	_		1		K-ISIE	2-50 -				\geq	 	<u> </u>			ļ	<u> </u>	<u> </u>	
		┢					\dashv	_	-	+	4				_	_ -		 	 			-		<u> </u>	
		┢	\vdash				-	-			┦				–	+		 							
		┢	┢──				1	-	-		┥					+		 					_		
		-									┨				┢			<u> </u>					+	<u> </u>	
		┢						-			┨				╢──	- -					<u> </u>	+			
		1						┨			┫			1	 	+					+		+		
		1							\neg	\uparrow	┪	1				+		 	<u> </u>			+	+		
PLEASE NOTE: Liability an analyses. All claims include	nd Damages. Cardinal's liability and client's exclusive remody for ing those for negligence and any other cause whatsoever shall be	deema	m arisi d waivi	ng wheth ed unless	er based mede in	in con writin	and a	r lort, receh	, shall red by	be imi Cardin	ed to al wi	o the amount per ithin 30 days after	d by the client fo r completion of t	r the the applics	ible								3		

service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors adving out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinguished By Jose Duesand	Date: 10-15-18 Time:	Received By:	Phone Result: U Yes No Add'I Phone #: Fax Result: U Yes No Add'I Fax #: REMARKS:
Relinquished By:	Date: Time:	Received By:	Emas of Results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.7°	Sample Condition CHECKED BY: Cool Intact (Initials)	(Rushed)

1/ fo 8t 280 arritinal cannot accent verhal changes. Places far written changes to 15751 303-3326



November 29, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/20/18 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP6 N WALL 1' (H803405-01)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.091	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	0.182	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	0.273	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	105	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	87.8	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	456	50.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	173	50.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	79.1	% 41-142	2						
Surrogate: 1-Chlorooctadecane	111 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP6 S WALL 1' (H803405-02)

BTEX 8260B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	97.1	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	79.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	11.6	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP6 W WALL 1' (H803405-03)

BTEX 8260B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	103	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	85.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP6 E WALL 1' (H803405-04)

BTEX 8260B	mg	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	99.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	82.5	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP8 N WALL 1' (H803405-05)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	108 9	% 90.4-11	1						
Surrogate: Toluene-d8	99.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	81.1	% 80.1-12	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	39.9	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	11.8	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP8 S WALL 1' (H803405-06)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	109	% 90.4-11	1						
Surrogate: Toluene-d8	96.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	131	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	666	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	138	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	126	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP8 W WALL 1' (H803405-07)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	107	% 90.4-11	1						
Surrogate: Toluene-d8	82.8	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	155	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	3190	50.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	658	50.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	139	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/20/2018	Sampling Date:	11/19/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP8 E WALL 1' (H803405-08)

BTEX 8260B	mg	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	101 9	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	120	80.1-12	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	991	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	272	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	132	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 9/9/2020 1:44:05 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (57,5) 393-2326 FAX (575) 393-247																								
Company Name		-								8	LL TO							ANA	YSI	S RE	QUE	ST			
Project Manager							P	.0. #																	
Address:							с	omp	any	:								3							
City: Holio	State: NN	Zip:	S	321	40		A	ttn:							-										
Phone #:	Fax #:						A	ddre	ess:																
Project #:	Project Owne	r:					с	ity:																	
Project Name:		~					s	tate:	31		Zip:														
Project Location	: Tonge teel trule	Ext	4c	ND	5		Р	hon	e #:																
Sampler Name:	j			1			F	ax #	:				1												
FOR LAB USE ONLY					MAT	RIX	- 1	PR	ESE	RV.	SAMPL	ING	-												
Lab I.D. H803405	Sample I.D.	(G)RAB)OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICEDCOOL	OTHER:	DATE	TIME	U. L.		EXT IPH	Brex									
	SPG Quay 1'		;		/			_	1		11.19	2º 10pm	\downarrow	$\langle \rangle$		\mathbf{i}									
2	SPG Swall 1'		1		1				/		11.19	2:15pm	1						-				-		
3	SPle wwall 1!		1	_	1		_	_	1		11.19	2:20pr				\rightarrow									
4	Sple & wall 1'		-			_	_	_	-		11.14	2:24p	h			$\overline{\ }$									
- 7	St& Wwan 19		-		\wedge		_	-	1	-	11.19	OS LAN				$\dot{}$	_			-			-	2	
9	SP& S WAR I)	-	~		-		2		11.10	234121	1	-	$\langle \cdot \rangle$	\leq									
	Pro w wall		1					+	1		11 101	2:010			-	$\overline{}$									
0								-			Lt.t⊘	a-ongi													
		-	-																						
analyses All claims includ	Damages. Cardinal's liability and client's exclusive remedy fo ing those for negligence and any other cause whatsoever shall b	e deemed	waive	d unless	s made in	writing	and re	eceived	by Ca	rdinal v	within 30 days at	ter completion of	the app	licable											
service In no event shall (Cardinal be liable for incidental or consequental damages, includi ing out of or related to the performance of services hereunder by	ng withou	t limita	tion, bus	siness int	erruptio	ons, los	s of use	e, or lo	ss of p	profits incurred by	client, its subsid	liaries,												
Relinquished B	y: Date: Date:	S Re	ceit	ved B	ti		R	1			ON	Fax Resu REMARK	esult: ult: (S:		Yes		No No		Phone Fax #:						
	Time:					_							A.	X	• • •				5						
Delivered By	: (Circle One)	2-1		C	ample	Intac	:t/	n	CH		KED BY: tials)														
Sampler - UPS	- Bus - Other: 4.12c/ # 0	11			Yes		Yes		6	F	4														



December 03, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/26/18 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/26/2018	Sampling Date:	11/26/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S WALL SP7 @ 2' (H803449-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/29/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2018	ND	206	103	200	7.28	
DRO >C10-C28*	126	10.0	11/30/2018	ND	215	107	200	10.2	
EXT DRO >C28-C36	63.9	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/26/2018	Sampling Date:	11/26/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: N WALL SP7 @ 2' (H803449-02)

BTEX 8021B mg/		/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/29/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2018	ND	206	103	200	7.28	
DRO >C10-C28*	10.2	10.0	11/30/2018	ND	215	107	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98. <i>3</i>	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/26/2018	Sampling Date:	11/26/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W WALL SP7 @ 2' (H803449-03)

BTEX 8021B		/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/29/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2018	ND	218	109	200	2.03	
DRO >C10-C28*	<10.0	10.0	11/30/2018	ND	222	111	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	11/26/2018	Sampling Date:	11/26/2018
Reported:	12/03/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: E WALL SP7 @ 2' (H803449-04)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/29/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2018	ND	218	109	200	2.03	
DRO >C10-C28*	<10.0	10.0	11/30/2018	ND	222	111	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 9/9/2020 1:44:05 PM

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX	(575) 393-247	6																							
Company Name										E	311	LTO							ANA	LYS	IS R	EQUE	ST			
Project Manage	r: Bruce Bal	er.						Ρ.	0. #	:				1		T				T		1	1	Γ	-	
Address:			1	- 2 - 2	~			Co	mp	any:									5							
City: Habbs	;	State: DM	Zip	:88	24	10		At	Attn:																	
Phone #:		Fax #:						Ac	Address:																	
Project #:	Project #: Project Owner:						City:																			
Project Name:	٨							Sta	ate:			Zip:														
Project Location	n: Tonis feel	tank	Br	atte	m.	i		Ph	one	#:				1									1	2		
Sampler Name:	chre Ruescreb	n						Fa	x #:					1												
FOR LAB USE ONLY	00-0			1		MAT	RIX		PRE	ESER	۲V.	SAMPL	NG	1												
Lab I.D. <u>H803449</u> l 2 3 4	Sample I. 5 wall sp 1 wall sp w wall sp 2 wall sp 6 and sp 7	1 <u>@ 1'</u> '@ 2' '@ 0'	D.D.D. D (G)RABYOR (C)OMP	CONTAINERS	MASTEWATER	20IL	OIL	OTHER:	ACID/BASE:		OTHER:	DATE 11 24 11 24 11 24 11 24	ТІМЕ (: SUppo (: Збри (:Збри (: Збри (: Дбри)	VY VN AI	111	HOT TRAV /	1/1/BTex									
analyses. An ciantis includi	nd Damages. Cardinal's liability and clier ng those for negligence and any other ca ardinal be liable for incidental or conseq no und for related to the serformance	ause whatsoever shall be di uental damages, including v	eemed without	waived i limitatio	unless m n. busini	nade in w ess interr	riting a	nd recei	ved by	Cardin:	al with	hin 30 days afte	r completion of th	ne applio	cable											
Relinquished By Relinquished By Delivered By Sampler - UPS	(Circle One)	Jesevices hereunder by Ca Date: <u>11-36-18</u> Time: <u>716:25</u> Date: Time:	Rec	eive	d By d By d By Sam	iether sud : 10/	onditact	tion		CHEC		D BY:	Phone Res Fax Result REMARKS	suit: t: S:		Yes Yes		No No	Add'l Add'l							

Released to Imaging: 1/25/2023 10:32:49 AM



December 07, 2018

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/18 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	12/04/2018	Sampling Date:	12/04/2018
Reported:	12/07/2018	Sampling Type:	Soil
Project Name:	TONY FEDERAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 WEST WALL (H803560-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2018	ND	2.01	101	2.00	8.83	
Toluene*	<0.050	0.050	12/05/2018	ND	1.96	97.9	2.00	8.15	
Ethylbenzene*	<0.050	0.050	12/05/2018	ND	1.90	94.9	2.00	7.64	
Total Xylenes*	<0.150	0.150	12/05/2018	ND	6.07	101	6.00	7.53	
Total BTEX	<0.300	0.300	12/05/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/05/2018	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2018	ND	200	99.9	200	8.02	
DRO >C10-C28*	77.7	10.0	12/06/2018	ND	211	106	200	8.47	
EXT DRO >C28-C36	22.0	10.0	12/06/2018	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142							
Surrogate: 1-Chlorooctadecane	111 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 9/9/2020 1:44:05 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-24																										
Company Name: A Pache										B	11	LTO		ANALYSIS REQUEST													
Project Manager: Bruce Redeer								P.O. #:							Τ			Т	T	T	1010		T		1	T	
Address:								Company:																			
City: 170665 State: DU Zip: 88240									Attn:																		
Phone #:	Fax #:	· · ·			~ '	U	-	Address:																			
Project #: Project Owner:							- 1	City:																			
Project Name:								State: Zip:																			
Project Location: Jony feel Janle Battery Sampler Name: Jose Due & Back						-	Phone #: Fax #:																				
FOR LAB USE ONLY	CARL WILL BOARD	T			MA	TRI		-	PRE	SER	v.	SAMPL	ING														
	Sample I.D.	C (G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER		OIL	SLUDGE	OTHER :	ACID/BASE:			рате Доч	TIME 10:2/Rm			NEXT TOH	× uto										
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive remedy fo	r any clair	m arisi	ng wheth	er based	d in co	ntract or	r tort,	shall b	e limite	ed to	the amount pa	id by the client for	the				<u> </u>			-						
analyses. All claims includin	ig those for negligence and any other cause whatsoever shall b ardinal be liable for incidental or consequental damages, include	e deeme	d waive	ed unless	made in	n writin	o and r	eceiv	ed by C	Cardina	al with	hin 30 days after	er completion of th	e anni	licable												
affiliates or successors arisin Relinquished By	ng out of or related to the performance of services hereunder by	Cardinal	regar	dless of	whether	such o	laim is	based	d upon	any of	the a	above stated re	asons or otherwis	ie.	r] Yes	r	No	14.4	ים ויו		<i>u</i> .		 -		Z	
Jak	Time UD		16	a		I	ler	Л	S	0	n		Fax Resul	t:] Yes				d'I Fa	none i ix #:	#:					
Relinquished By	/: Date: Time:	Re	ceiv	ved B	y:																						A.
Delivered By: Sampler - UPS	(Circle One)	Q-	1	C	mple ool Yes No	Inta	Yes	n	C	THEC		D/BY:	Emo			R	دع	ult	S								

Photos



From:	Pruett, Maria, EMNRD
То:	Baker, Larry; "stucker@blm.gov"
Cc:	Bratcher, Michael, EMNRD
Subject:	[EXTERNAL] Closure Approved RE: [EXT] FW: Tony Federal Battery corrective action plan 2RP 2071, 2132,2509
Date:	Saturday, November 3, 2018 6:57:13 PM

Hello Mr. Baker, The closure for 2RP 2071, 2132 and 2509 has been approved. Best Regards,

Maria Pruett

Environmental Specialist N.M. Oil Conservation Division District 2 811 S. 1st Street Artesia, NM 88210 Desk: 575 748-1283 X 101 Cell: 575 840-5963 Fax: 575748-9720 *OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or*

regulations.

From: Baker, Larry <Larry.Baker@apachecorp.com>

Sent: Tuesday, October 30, 2018 2:54 PM

To: Pruett, Maria, EMNRD <Maria.Pruett@state.nm.us>; 'stucker@blm.gov' <stucker@blm.gov> **Subject:** [EXT] FW: Tony Federal Battery corrective action plan 2RP 2071, 2132,2502

Ms. Pruett,

Attached is the page 5 of the new C-141 that we discuss on Friday. Apache Corporation appreciates all your help in resolving this issue. Please let me know if you need anything else or wish to discuss. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR direct 575-393-7106 ext 1523 | Cell 432-631-6982

APACHE CORPORATION 2350 W. MARLAND BLVD HOBBS , NM 88240

ApacheCorp.com | LinkedIn | Facebook | Twitter | StockTwits | YouTube

From: Baker, Larry

Sent: Tuesday, October 16, 2018 4:34 PM

To: 'Pruett, Maria, EMNRD' <<u>Maria.Pruett@state.nm.us</u>>; 'stucker@blm.gov' <<u>stucker@blm.gov</u>> Subject: Tony Federal Battery corrective action plan 2RP 2071,2132,2502

All,

Attached is the corrective action plan for your review and approval. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR direct 575-393-7106 ext 1523 | Cell 432-631-6982

APACHE CORPORATION 2350 W. MARLAND BLVD HOBBS , NM 88240 ApacheCorp.com | LinkedIn | Facebook | Twitter | StockTwits | YouTube

WARNING EXTERNAL EMAIL: This email is from an external source. Do not click links or open attachments without positive sender verification of purpose. Never enter Username, Password or sensitive information on linked pages from this email. If you are unsure about the message, please contact the ServiceDesk for assistance.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	10092
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

Created By		Condition Date
amaxwell	None	1/25/2023

Page 74 of 74

.

Action 10092