



Closure Report

January 17, 2020

Re: North Monument G/SA Unit #355

API# 30-025-38453 Case # 1RP-5729

To: Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Drive Hobbs, New Mexico 88240

On September 27, 2019 a release occurred due the deterioration of the lower packing on a back-pressure valve. An initial C-141 was submitted to NMOCD and approved on October 4, 2019. The release is located north of Monument, New Mexico (GPS: 32.6206551, -103.3250351) in unit letter C section 35 township 19S range 36E. Groundwater data was collected utilizing USGS and NMOSE wells of record. The nearest well indicates water to be 70 feet below ground surface.

The release area was excavated to a depth of 6 inches. On November 15, 2019 final five-point bottom and wall composite samples were taken not to exceed 200 square feet and submitted to a commercial laboratory for analysis of CL-, BTEX and TPH. All lab results were below table 1 standards for releases greater than 50 feet to groundwater. Approximately 120 yards of excavated material was taken to an approved NMOCD disposal facility. The excavation was backfilled with clean imported caliche.

Apache Corporation has completed remediation activities in accordance with NMOCD closure criteria and respectfully request closure for 1RP-5314.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Analysis, and Photos

Submitted by;

Environmental Technician Jeffrey.Broom@apachecorp.com

Cell# 432-664-4677 Off# 575-393-7106 District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM1927739144
District RP	1RP-5729
Facility ID	
Application ID	pRM1927739582

Release Notification

Responsible Party

Responsible Party: Apache Corporation	OGRID 873
Contact Name: Bruce Baker	Contact Telephone: (432) 631-6982
Contact email: Larry.Baker@apachecorp.com	Incident # (assigned by OCD)
Contact Mailing Address: 2350 W. Marland Blvd, Hobbs, NM 88240	

Location of Release Source

Latitude: W 32.6206551 Longitude: N -103.3250351

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: North Monument G/SA Unit #355	Site Type: Well	
Date Release Discovered: September 27, 2019	API# 30-025-38453	

Unit Letter	Section	Township	Range	County
C	35	198	36E	LEA

Surface Owner: Astate Federal Tribal X Private (Name: Not Applicable)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (1 bbls)	Volume Recovered (.50 bbls)
☑ Produced Water	Volume Released (76 bbls)	Volume Recovered (29.5 bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ⊠ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Deterioration of lower p	acking on back pressure valve.	



Incident ID	NRM1927739144
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by		
19.15.29.7(A) NMAC?	Release was great than 25 barrels.	
☑ Yes ☐ No		
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? CD (Robert Hamlet, Dylan Rose-Coss, and Jim Griswold) by Jeff Broom, Environmental Technician, Apache et 27, 2019.	
	Initial Response	
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
The source of the rek	ease has been stopped.	
The impacted area ha	is been secured to protect human health and the environment.	
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and managed appropriately.	
If all the actions describe	d above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Jeff Broom	n Title: Environmental Technician	
Signature:	Date: 10/3/2019	
Email: Jeffrey.Broom@a	pachecorp.com Telephone: (432) 664-6908	
OCD Only		
Received by: Ramona 1	Marcus Date: 10/4/2019	

Received by OCD: 1/17/2020 10:29:01 AM

Volume Calculation

800 cubic feet of soil contamination X 7.48 gallons per cubic foot = 5,984 gallons/42 gallons to a barrel=142 barrels X .33 soil porosity= 47 barrels fluid in soil + 30 barrels recovered = 77 barrels total loss.



Incident ID	nRM1927739144
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?	70' (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?			
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?			
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.			
Characterization Report Checklist: 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			
Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information			
Boring or excavation logs			
Photographs including date and GIS information Topographic/Aerial maps			
Laboratory data including chain of custody			

the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation because in the proposed remediation technique, proposed sampling plan detends, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 1.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	nRM1927739144	$\neg \neg$
District RP	1RP-5729	
Facility ID		\Box
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: JEFF BROOM	Title: Environmental Technician
Signature: Signature:	Date: 1/19/20
email: Jessey. Brown @apate curp.com	Telephone: 432.664.4677
OCD Only	
Received by: Cristina Eads	Date:03/16/2020

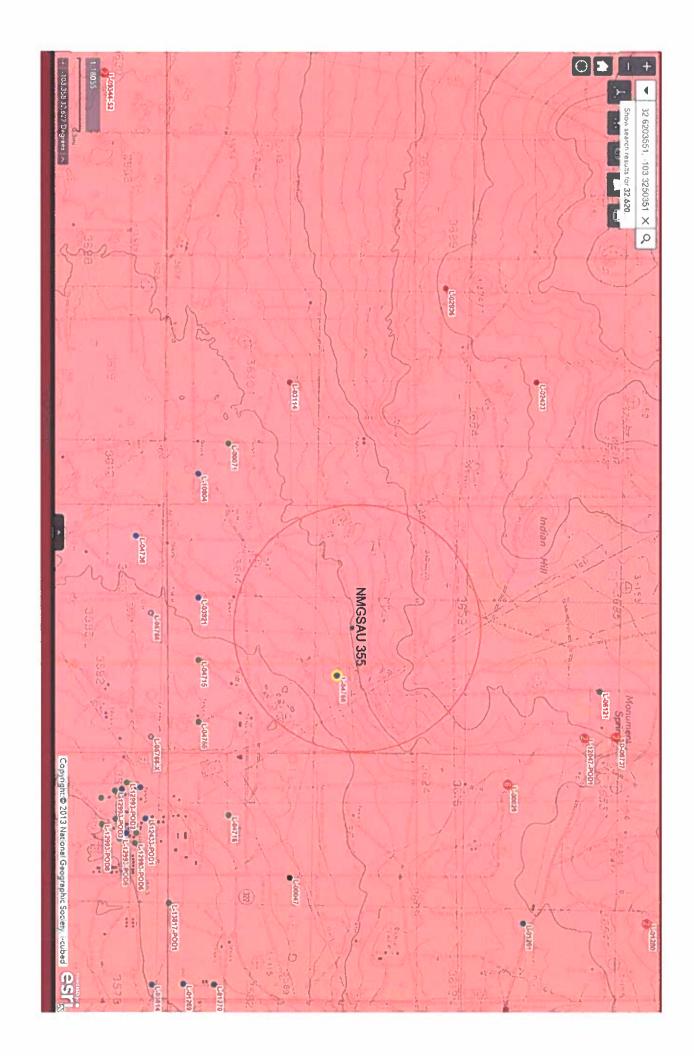


Incident ID	nRM1927739144
District RP	
Facility ID	
Application ID	

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.

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate ODC)	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular testore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the October 19.15.29.13 NMAC inclu	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: JEFF BRum	Title: Environmental Technician
Signature:	Date: 1/11/30
Printed Name: JEFF BRum Signature: Signature: Seffrey. Broom sapurne corp. Curn	Telephone: 432.664.477
	¥
OCD Only	
Received by:Cristina Eads	Date: 03/16/2020
Slocure approval by the OCD does not relieve the responsible party of	of liability should their operations have failed to adequately investigate and
	water, human health, or the environment nor does not relieve the responsible
osure Approved by:	Date: 03/16/2020
inted Name:Cristina Eads	Title: Environmental Specialist







New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are I=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

L 04756

19S 36E

657455 3610347* *

Driller License:

208

Driller Company:

Driller Name:

W.L. VAN NOY

VAN NOY, W.L.

Drill Start Date:

11/26/1961

Drill Finish Date:

12/09/1961

Plug Date:

Log File Date:

12/18/1961

PCW Rcv Date:

Shallow Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

10.75

Depth Well:

250 feet

Depth Water:

70 feet

Water Bearing Stratifications:

Top 178

Bottom Description

232 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

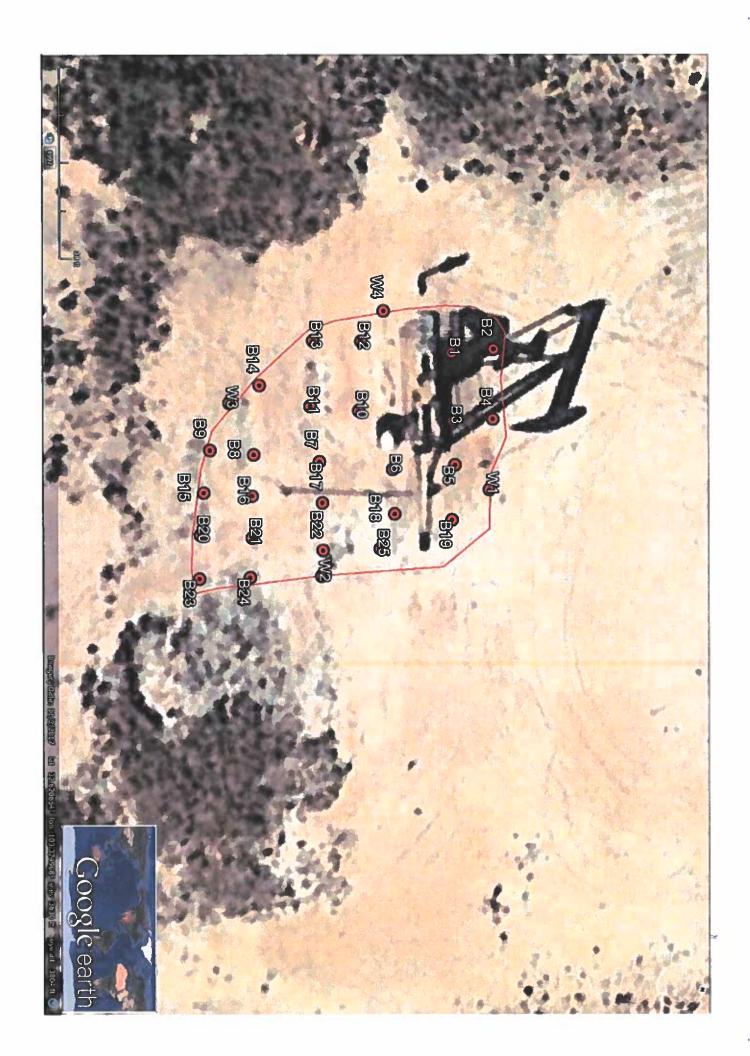
190 230

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

1/2/20 2:02 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



NEDU Injection Line Complete List

	Sample	Sample ID	Depth	Chloride	Chloride Benzene Toulene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	EXT DRO GPS Coordinates
Mapio	Date							Xylenes	втех				
Wall Samples	les												
												i	32.62080,
W1	4/26/2019	W1	6"	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.9	12.8	-103.32500
													32.62056,
W2	4/26/2019	W2	θĒ	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.32479
													32.62053,
W3	5/16/2019	W3	6"	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.32499
													32.62074,
W4	4/26/2019	W4	ወ	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.32515

NEDU Injection Line Complete List

B20	B19	B18	817	816	B15	B14	813	B12	B11	810	89	B8	87	86	B5	B4	B3	B2	B1 5/1
5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/6/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/2/2019	5/1/2019	5/1/2019	5/1/2019	5/1/2019	5/1/2019
B20	В19	B18	B17	B16	B15	B14	В13	B12	B11	B10	89	88	В7	86	85	84	В3	B2	B1
oʻ.	φį	6.	oʻ.	e ^z	e ^z	6.	6"	e ^z	oʻ.	פֿי	οį	o <u>i</u>	တ္	oj.	o ⁱ	o ²	<u>و</u>	61	ดู
192	432	256	1090	288	80	112	208	96	64	288	144	352	464	176	48	352	368	2050	2000
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
140	335	119	189	32.4	<10.0	<10.0	15.4	<10.0	<10.0	<10.0	48.3	<10.0	10.4	<10.0	<10.0	<10.0	<10.0	25.5	<10.0
27.3	84.8	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
32.62056, -103.32491	32.62060, -103.32486	32.62073, -103.32494	32.62067, -103.32491	32.62063, -103.32491	32.62055, -103.32744	32.62056, -103.32507	32.62058, -103.32511	32.62064, -103.32514	32.62065, -103.32511	32.62067, -103.32509	32.62056, -103.32499	32.62056, -103.32495	32.62061, -103.32497	32.62066, -103.32496	32.62075, -103.32498	32.62073, -103.32505	32.62073, -103.32505	32.62073, -103.32512	32.62073, -103.32512

NEDU Injection Line Complete List

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<u>l</u> gr	
ete	
Lis	

-103.32487	25.7	180	<10.0	<0.300	< 0.150	<0.050	<0.050	<0.050	3440	<u>و</u>	825	5/2/2019	825
32.62063,													
-103.32481	44.2	177	<10.0	<0.300	< 0.150	<0.050	<0.050	<0.050	416	တ္	824	5/2/2019	B24
32.62060,													
-103.32482	<10.0	<10.0	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	352	ดู	823	5/2/2019	B23
32.62056,													
-103.32484	120	459	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	448	<u>و</u>	822	5/2/2019	B22
32.62061,													
-103.32487	<10.0	28	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	704	φĨ	821	5/2/2019	B21
32.62056,													



November 19, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #355

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

Celeg D. Keina

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. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

11/15/2019 11/19/2019

Project Name: Project Number:

Project Location:

NMGSAU #355 NONE GIVEN **NOT GIVEN**

Sampling Date:

11/15/2019

Sampling Type:

Sample Received By:

Soil Sampling Condition:

Cool & Intact

Tamara Oldaker

Sample ID: W 1 @ 6" (H903892-01)

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	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5,19	86.5	6.00	6.39	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 73,3-12	9						
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	11/19/2019	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	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	46.9	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	12.8	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	1125	% 41-142							
Surrogate: 1-Chlorooctadecane	121 5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after co

Calay I trans



Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019

11/19/2019

Project Name:

NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: W 2 @ 6" (H903892-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0.300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	144	16.0	11/19/2019	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	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	111 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in witing 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 client, its subsidients, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal arising of t





Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

Project Name:

NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

11/15/2019

Sample Received By:

Tamara Oldaker

Sample ID: W 3 @ 6" (H903892-03)

BTEX 80218	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0,300	0.300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/19/2019	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	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	117 :	% 41-142	2						
Surrogate: 1-Chlorooctadecane	127	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019

Project Name: Project Number: NMGSAU #355 **NONE GIVEN**

Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W 4 @ 6" (H903892-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
8enzene*	<0.050	0.050	11/16/2019	ND	1.71	85.6	2.00	6.30	
Toluene*	<0.050	0.050	11/16/2019	ND	1.71	85.3	2.00	6.39	
Ethylbenzene*	<0.050	0.050	11/16/2019	ND	1.72	86.2	2.00	6.22	
Total Xylenes*	<0.150	0.150	11/16/2019	ND	5.19	86.5	6.00	6.39	
Total BTEX	<0.300	0,300	11/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 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	80.0	16.0	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					<u>. </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	110 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	117 9	% 37.6-14	7						

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Celay There



Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019

11/19/2019

Project Name:

NMGSAU #355 **NONE GIVEN**

Project Number:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Tamara Oldaker

Sample Received By:

Project Location:

Sample ID: B 1 @ 6" (H903892-05)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate:	4-Bromof	luorobenzene	(PID
------------	----------	--------------	------

105 %

Chloride, SM4500Ci-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2000	16.0	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					

Surrogate: 1-Chlorooctane

119%

41-142

73.3-129

Surrogate: 1-Chlorooctadecane

127%

37.6-147

Cardinal Laboratories *=Accredited Analyte

Celaz Z Kiena



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name:

DTEV GARAGE

11/19/2019 NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 2 @ 6" (H903892-06)

BTEX 80218	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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	11/19/2019	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	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	25.5	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: I-Chlorooctane	116	% 41-142	!						
Surrogate: 1-Chlorooctadecane	125	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019 11/19/2019

Reported: Project Name:

NMGSAU #355 **NONE GIVEN**

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

Sample ID: 8 3 @ 6" (H903892-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

102 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/19/2019	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	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					

Surrogate: I-Chlorooctane

120 %

41-142

Surrogate: 1-Chlorooctadecane

130%

37.6-147

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Colleg & treeme



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name: 11/19/2019 NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 4 @ 6" (H903892-08)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	100	% 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	352	16.0	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Biank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2019	ND	214	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2019	ND	217	109	200	0.635	
EXT DRO >C28-C36	<10.0	10.0	11/16/2019	ND					
Surrogate: 1-Chlorooctane	121	% 41-142	!						
Surrogate: 1-Chlorooctadecane	130	% 37.6-14	7						

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Colleg V. Keens



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/19/2019

Sampling Type:

Soil

Project Name:

NMGSAU #355 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: B 5 @ 6" (H903892-09)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 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	48.0	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: I-Chlorooctadecane	109	% 37.6-14	7						

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Colory T. Kanne



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019 NMGSAU #355

Project Name: Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 6 @ 6" (H903892-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	Qualifler
Chloride	176	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	95.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.2	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019

11/19/2019 NMGSAU #355

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 7 @ 6" (H903892-11)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 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	464	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	10.4	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	99.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Applyand By: MC

Received:

11/15/2019

Reported: Project Name:

RTEV CASIR

11/19/2019 NMGSAU #355

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 8 @ 6" (H903892-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73.3-12	9						
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	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	?						
Surrogate: I-Chlorooctadecane	117	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name: 11/19/2019 NMGSAU #355

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 9 @ 6" (H903892-13)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	144	16.0	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	48.3	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	!						
Surrogate: I-Chlorooctadecane	115	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019 11/19/2019 Sampling Date: Sampling Type: 11/15/2019

Reported:

NMGSAU #355 NONE GIVEN

Sampling Condition:

Soil

Project Name: Project Number:

Sample Received By:

Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: B 10 @ 6" (H903892-14)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 73.3-12	9						

Result	Reporting Limit	Analyzed	Method Blank	BS	M	12		
288			ricatoa biolik	D3	% Recovery	True Value QC	RPD	Qualifier
	16.0	11/19/2019	ND	416	104	400	3.77	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
<10.0	10.0	11/18/2019	ND					
	Result <10.0 <10.0	<10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed <10.0 10.0 11/18/2019 <10.0 10.0 11/18/2019	Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

106 %

41-142

Surrogate: 1-Chlorooctadecane

113 %

37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

Project Name:

NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

sampling Date:

11/15/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: B 11 @ 6" (H903892-15)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 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	64.0	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108 9	6 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name: 11/19/2019 NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 12 @ 6" (H903892-16)

8TEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/19/2019	ND	416	104	400	3.77	
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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019

Project Name: Project Number: NMGSAU #355 NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 13 @ 6" (H903892-17)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.4	% 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	208	16.0	11/19/2019	ND	416	104	400	3.77	
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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.3	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019

Project Name: Project Number:

NONE GIVEN

Project Location:

NMGSAU #355

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 14 @ 6" (H903892-18)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/19/2019	ND	416	104	400	3.77	
ТРН 8015М	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142							
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name: 11/19/2019 NMGSAU #355 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 15 @ 6" (H903892-19)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS					<u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	112	% 41-142							
Surrogate: 1-Chlorooctadecane	115	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

NMGSAU #355

Project Name: Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/15/2019

Sampling Type: Soil

Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

NOT GIVEN

Sample ID: B 16 @ 6" (H903892-20)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

98.4 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/19/2019	ND	416	104	400	3.77	
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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	32.4	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					

Surrogate: 1-Chlorooctane

106%

41-142

Surrogate: 1-Chlorooctadecane

115 %

37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019 NMGSAU #355

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 17 @ 6" (H903892-21)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifler
Chloride	1090	16.0	11/19/2019	ND	416	104	400	3.77	
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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	189	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	111	% 41-142	?						
Surrogate: 1-Chlorooctadecane	134	% 37.6-14	17						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

Project Name:

Project Number: Project Location: NMGSAU #355 NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

11/15/2019 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B 18 @ 6" (H903892-22)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	119	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142							
Surrogate: 1-Chlorooctadecane	121	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported: Project Name:

11/19/2019 NMGSAU #355

Project Number: Project Location: **NONE GIVEN NOT GIVEN**

Sampling Date:

11/15/2019

Soil

Sampling Type:

Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: B 19 @ 6" (H903892-23)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0,300	0,300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 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	432	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	335	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	84.8	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	117 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	132 9	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

Project Name: Project Number:

NMGSAU #355 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: B 20 @ 6" (H903892-24)

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	11/18/2019	ND	1.79	89.5	2.00	2.57	
Toluene*	<0.050	0.050	11/18/2019	ND	1.77	88.4	2.00	3.34	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	1.81	90.4	2.00	3.30	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	5.46	90.9	6.00	3.25	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	192	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	140	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	27.3	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	112	% 41-142	?						
Surrogate: 1-Chlorooctadecane	125	% 37.6-14	7						

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including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitu-ciaim is based upon any of the above stated massons or otherwise. Results relate only to the samples identified above. This report st sors arising out of or related to the performance of the services he

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Sampling Date:

11/15/2019

Reported:

11/19/2019

Sampling Type:

Soil

Project Name: Project Number: NMGSAU #355 NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: B 21 @ 6" (H903892-25)

BTEX 80218	ı	

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	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/19/2019	NĐ	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	Qualifler
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	28.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					

Surrogate: 1-Chlorooctane

109 %

41-142

Surrogate: 1-Chlorooctadecane

119%

37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019 11/19/2019

Sampling Date: Sampling Type: 11/15/2019

Reported: Project Name:

NMGSAU #355 NONE GIVEN

Sampling Condition: Sample Received By: Soil Cool & Intact

Project Number: Project Location:

NOT GIVEN

Tamara Oldaker

Sample ID: B 22 @ 6" (H903892-26)

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	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	448	16.0	11/19/2019	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	Qualifler
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	459	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	120	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	?						
Surrogate: 1-Chlorooctadecane	127.5	% 37.6-14	7						

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PLEASE NOTE: Liability and Dan





Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019

Reported:

11/19/2019 NMGSAU #355

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

11/15/2019

Tamara Oldaker

Sample ID: B 23 @ 6" (H903892-27)

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Analyzed By: MS

	******	****	******						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9						
Chloride, SM4500Ct-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	11/19/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	<10.0	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	11/18/2019	ND					

Surrogate: 1-Chlorooctane

111 %

41-142

Surrogate: 1-Chlorooctadecane

118%

37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/15/2019 11/19/2019

Sampling Date: Sampling Type: 11/15/2019

Soil

Reported:

11/19/2019 NMGSAU #355

Sampling Condition:

Cool & Intact

Project Name: Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: B 24 @ 6" (H903892-28)

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	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	<0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/19/2019	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	11/18/2019	ND	213	106	200	1.71	
DRO >C10-C28*	177	10.0	11/18/2019	ND	212	106	200	1.81	
EXT DRO >C28-C36	44.2	10.0	11/18/2019	ND					
Surrogate: 1-Chlorooctane	115 9	% 41-142							
Surrogate: 1-Chlorooctadecane	128 9	% 37.6-14	7						

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any other clause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labely for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suc 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 Laboratories.





Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/15/2019 11/19/2019

Project Name:

Project Number:

Project Location:

NMGSAU #355 **NONE GIVEN**

NOT GIVEN

Sampling Date:

11/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 25 @ 6" (H903892-29)

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	11/18/2019	ND	1.93	96.5	2.00	9.93	
Toluene*	<0.050	0.050	11/18/2019	ND	2.02	101	2.00	15.6	
Ethylbenzene*	<0.050	0.050	11/18/2019	ND	2.09	105	2.00	21.8	
Total Xylenes*	< 0.150	0.150	11/18/2019	ND	6.11	102	6.00	21.0	
Total BTEX	<0.300	0.300	11/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	11/19/2019	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	11/19/2019	ND	225	112	200	1.24	
DRO >C10-C28*	180	10.0	11/19/2019	ND	221	111	200	1.31	QM-07
EXT DRO >C28-C36	25.7	10.0	11/19/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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Notes and Definitions

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

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any other counter what services. Learning and services in counter the services are services and the services are services. At cleaning, including dates or in engagence are any other countered with a state of the applicable service. In no event, shall be deemed waived unless make in writing and received by Certifical within thirty (30) days after completion of the applicable service. In no event, shall be deemed weight or incidental or consequential deliminages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services heraunder by Cardinal, regardless of whether such claims 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 Laboratories.

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Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

164

mark

Date: 11/15/15

Phone Result: Fax Result: REMARKS:

□ Yes

N S

Add'l Phone #: Add'l Fax #:

Time: 45

Received By:

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

Company Name: Forche Corporation		BILL TO		ANALYSIS REQUEST
₩.		P.O. #:		
Address:		Company:		
City: State:	Zip:	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:	7.	City:		
Project Name: NMG SAG 355		State: Zip:		
Project Location: NAGSAW 353		Phone #:		
Sampler Name: JEFF 3		Fax #:		
FOR LAB USE DMLY	MATRIX	PRESERV. SAMPLING	6	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CL BTEX EX1. TPH	EXTITA
TW		11/15/6 11:00	1:00 X X X	
2 w 2 @ 6"		1 1	11:01 10:11	
3 w 3 06"			11.02	
			11:65	
5 31 106"			[[:64]	
682 06"			1.05	
7 53/06"			10.04	
8 34 66"			1:07	
9 85 136"			Jo: 11	
10 36 36"			11:65	
PLEASE NOTE: Liebliky and Damages, Cardinal's liability and client's exclusive remark for any cleim enting whether based in contract or fort, shall be insted to the amount paid by the client for the stables, all clients including these to replicate any other crass whatboever shall be deemed waved unless made in witing and restried with 10 days filter completion of the applicable and the shall be applicable and the shal	any claim artsing whether based in contra e deemed waived unless made in witing a	I or fort, shall be limited to the amount paid to deceived by Cardinal within 10 days after or beautiful in the second by deceived by the second by the seco	by the client for the completion of the applicable	
efficies or successors aroung out of or related to the performance of services hereunder by Certinal, reporting of whether such claim is based upon any of the above stated respons or otherwise. Phone Results Phone Phone Results Phone P	Cardinal, regardeds of whether such claim Received Rv:	is besed upon any of the above stated reasons.	t: □ Yes	□ No Add'! Phone #-
			□ Yos	No Add' Fay #

Sampler - UPS - Bus - Other:

2.1° corrected



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240

Relinquished by: Relinquished By: Delivered By: (Circle One) Time: Time: Received By: Received By: Sample Condition
Cool Intact
Cyres Cyres
No No Oldaker Sw #577 CHECKED BY: Phone Result:
Fax Result:
REMARKS: ☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

Received by OCD: 1/17/2020 10:29:01 AM

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) 1.70

Relinquished By:

JER X

wash

Time: 45

Buanch (

Time: Date:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Lorde Contration		BILL TO		ANALYSIS REGUEST	
4		P.O. #:		- 1	
1		Company:			
City: State:	Zip:	Attn:			
Phone #: Fax #:		Address:			
Project #: Project Owner:		City:			
Project Name: NM65AU 355		State: Zip:			
Project Location: Nm 65Ak 355		*			
Sampler Name:)		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV SAMPLING	ING		
Lab I.D. Sample I.D.	DWATER VATER			, TPH	
H963892	# CONT	OTHER ACID/BA ICE / CO OTHER	CL BIE	EXT	
3 67 18 18				×	
12 B18 10 6:		1,1	-		
33 815 86			11:22		
320			11 12		
25 321 @ 6"			H2.11		
322 (11:25		
323 @			1:26		
28 G 24 6"			11:27		
\$ 575 B		+	11:28 1	1	
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