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?	<u>180</u> (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.

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
- 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
- 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.

Received by OCD: 3	/21/2023 10:58:59 AM State of New	Mariaa		Page 2 of 10
			Incident ID	NAB1513157754
Page 2	Oil Conservation	n Division	District RP	2RP-2998
			Facility ID	
			Application ID	
				· · · · · · · · · · · · · · · · · · ·
regulations all opera public health or the failed to adequately	the information given above is true and c tors are required to report and/or file cert environment. The acceptance of a C-141 investigate and remediate contamination bance of a C-141 report does not relieve	ain release notifications and perform co report by the OCD does not relieve the that pose a threat to groundwater, surfa	prrective actions for rele operator of liability sh ce water, human health	eases which may endanger nould their operations have n or the environment. In
Printed Name: Da	le Woodall	Title: EHS Consu	ultant	
Signature: Dat	le Woodall <i>le Woodall</i>	Date: 1/3/2023		
_{email:} dale.woo	dall@dvn.com	Telephone.575-74	8-1838	
OCD Only				
Received by:	Jocelyn Harimon	Date:03/2	21/2023	

District RP	2RP-2998
Facility ID	
Application ID	

Incident 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 ite	ms must be included in the closure report.
\boxtimes 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 must be notified 2 days prior to liner inspection)	f 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	
may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	
Signature: Dale Woodall	_Date: 1/3/2023
_{email:} dale.woodall@dvn.com	_Telephone: 575-748-1848
OCD Only	
Received by: Jocelyn Harimon	Date: 03/21/2023
Closure approval by the OCD does not relieve the responsible party o	f liability should their operations have failed to adequately investigate and

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: Hall	Date: 4/10/2023
Printed Name: Brittany Hall	Title: Environmental Specialist



Pima Environmental Services 5614 N. Lovington Highway Hobbs, NM 88240 575-964-7740

December 6, 2022

Bureau of Land Management 620 East Green St Carlsbad, NM, 88220

NMOCD District 2 811 S. First St Artesia, NM, 88210

RE: Site Assessment and Closure Report Arcturus 18 Federal #005H API No. 30-015-41802 GPS: Latitude 32.6653332 Longitude -103.9008789 UL-A, Section 18, Township 19S, Range 31E NMOCD Reference No. NAB1513157754

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment and prepare this closure report for a crude oil/produced water mixed release that happened at the Arcturus 18 Federal #005H (Arcturus). An initial C-141 was submitted on May 11, 2015, and can be found in Appendix C. This incident was assigned Incident ID NAB1513157754, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Arcturus is located approximately twelve (12) miles South of Loco Hills, NM. This spill site is in Unit A, Section 18, Township 19S, Range 31E, Latitude 32.6653332 Longitude -103.9008789, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits-Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino loamy fine sand, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a medium potential for karst geology to be present around the Arcturus (Figure 3).

Based upon New Mexico Office of the State Engineer well water data, depth to the nearest groundwater in this area is 180 feet below -grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 204 feet BGS. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29											
Depth to Groundwater		Cons	tituent & Limits								
Deptil to Groundwater	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene						
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg						
51-100' (C 01907 POD1)	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg						
>100'	20,000 mg/kg 2,500 mg/kg 1,000 mg/kg 50 mg/kg 10										

A Topographic Map can be found in Figure 2.

Release Information

NAB1513157754: On May 6, 2015, the Lease Operator was contacted and told that the Arcturus 18 Fed 5H was leaking from the wellhead. Upon Lease Operator's arrival to the location, he discovered a H.F. back pressure valve had washed out releasing 20 bbls of oil and produced water mix onto location. The affected area was 48x85 with all fluids contained on location. Legendary Trucking recovered all 20 bbls of oil and produced water mix and the contaminated dirt will be removed from location and replaced with fresh dirt.

Site Assessment and Soil Sampling Results

On August 31, 2020, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

8-31-20 Soil Sample Results														
NMOCD	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')													
	Devon Energy - Arcturus 18 Fed 5H													
Date 8-31-20			NM Approved Laboratory Results BTEX Benzene GRO DRO MRO Total TPH Cl											
Sample ID	Depth	BTEX	Benzene	MRO	Total TPH	Cl								
Sample ID	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
S1	0-6"	ND	ND	ND	ND	ND	0	48						
	0-6"	ND	ND	ND	ND	ND	ND	112						
S 2	1'	ND	ND	ND	ND	ND	ND	48						
52	2'	ND	ND	ND	ND	ND	0	32						
	3'	ND	ND	ND	ND	ND	0	32						
	0-6"	ND	ND	ND	164	297	461	112						
S 3	1'	ND	ND	ND	25	ND	25	32						
33	2'	ND	ND	ND	ND	ND	0	ND						
	3'	ND	ND	ND	ND	ND	0	32						
	0-6"	ND	ND	ND	ND	ND	0	48						
S4	1'	ND	ND	ND	ND	ND	0	48						
- 54	2'	ND	ND	ND	ND	ND	0	48						
	3'	ND	ND	ND	ND	ND	0	64						
	0-6"	ND	ND	ND	ND	ND	0	240						
S5	1'	ND	ND	ND	ND	ND	0	48						
	2'	ND	ND	ND	ND	ND	0	48						
	3'	ND	ND	ND	ND	ND	0	48						
	0-6"	ND	ND	ND	ND	ND	0	2360						
S6	1'	ND	ND	ND	ND	ND	0	144						
	2'	ND	ND	ND	ND	ND	0	112						
	3'	ND	ND	ND	ND	ND	0	80						
	0-6"	ND	ND	ND	ND	ND	0	208						
S 7	1'	ND	ND	ND	ND	ND	0	64						
37	2'	ND	ND	ND	ND	ND	0	32						
	3'	ND	ND	ND	ND	ND	0	32						
	0-6"	ND	ND	ND	ND	ND	0	96						
S8	1'	ND	ND	ND	ND	ND	0	16						
30	2'	ND	ND	ND	ND	ND	0	16						
	3'	ND	ND	ND	ND	ND	0	ND						
	0-6"	ND	ND	ND	ND	ND	0	144						
S 9	1'	ND	ND	ND	ND	ND	0	64						
33	2'	ND	ND	ND	ND	ND	0	32						
	3'	ND	ND	ND	ND	ND	0	64						

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	0-6"	ND	ND	ND	ND	ND	0	6560
S10	1'	ND	ND	ND	ND	ND	0	416
510	2'	ND	ND	ND	ND	ND	0	256
	3'	ND	ND	ND	ND	ND	0	128
	0-6"	ND	ND	ND	31.8	ND	31.8	432
S11	1'	ND	ND	ND	ND	ND	0	112
511	2'	ND	ND	ND	ND	ND	0	80
	3'	ND	ND	ND	ND	ND	0	96
	0-6"	ND	ND	ND	ND	ND	0	192
S12	1'	ND	ND	ND	ND	ND	0	48
512	2'	ND	ND	ND	ND	ND	0	64
	3'	ND	ND	ND	ND	ND	0	64
	0-6"	ND	ND	ND	ND	ND	0	80
S13	1'	ND	ND	ND	ND	ND	0	48
515	2'	ND	ND	ND	ND	ND	0	32
	3'	ND	ND	ND	ND	ND	0	48
	0-6"	ND	ND	ND	ND	ND	0	96
S14	1'	ND	ND	ND	ND	ND	0	112
514	2'	ND	ND	ND	ND	ND	0	160
	3'	ND	ND	ND	ND	ND	0	160
	0-6"	ND	ND	ND	ND	ND	0	32
S15	1'	ND	ND	ND	ND	ND	0	64
313	2'	ND	ND	ND	ND	ND	0	48
	3'	ND	ND	ND	ND	ND	0	48
	0-6"	ND	ND	ND	ND	ND	0	2000
\$16	1'	ND	ND	ND	ND	ND	0	448
S16	2'	ND	ND	ND	ND	ND	0	128
	3'	ND	ND	ND	ND	ND	0	80

ND – Analyte Not Detected

Complete Laboratory reports can be found in Appendix D.

Remediation Activities

On July 13, 2022, Atkins Engineering personnel arrived on site to drill a test boring to determine depth to ground water. This drilling event was completed and registered with the OSE on 8-4-2022. The hole was bored to a depth of 55' bgs and ground water was not encountered during or after the 72-hour time period.

All sample results on this site are below NMOCD closure criteria per Table 1 of 19.15.29 NMAC. Based on these events, no remediation is necessary at this location.

Closure Request

After careful review, Pima requests that this incident, NAB1513157754 be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

Appendix A- Referenced Water Surveys Appendix B- Soil Survey and Geological Data Appendix C- C-141 Form Appendix D- Laboratory Reports

.



Figures:

- 1 Location Map
- 2 Topographic Map
 - 3 Karst Map
 - 4 Site Map





Arcturus 18 Fed 5H

Received by OCD: 3/21/2023 10:58:59 AM

Devon Energy API #30-015-41802 Eddy County, NM Karst Map



Arcturus 18 Fed 5H









Appendix A

Water Surveys: OSE USGS Surface Water Map



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fil closed)	laced, ined, le is			· 1				V 2=NE est to la	3=SW 4=S rgest) (1	E) NAD83 UTM in r	neters)	(In f	èet)	
		POD		~	0	~								**	T .
POD Number	Code	Sub- basin	County	-	Q 16	-		Twe	Rna	x	Y	DistanceDe	oth Well Dent		/ater Jumn
<u>CP 01907 POD1</u>	Cour	CP	ED				18			603017	3614737		in wendep	in water Co	luiiii
<u>CP 00873 POD1</u>		СР	LE		1	1	19	19S	31E	601772	3613147* 🌍	2024	340	180	160
<u>CP 00357 POD1</u>		СР	ED	4	4	1	24	19S	30E	600667	3612631* 🌍	3159	630		
<u>CP 00829 POD1</u>		СР	LE		2	4	16	19S	31E	606165	3614009* 🌍	3234	120		
<u>CP 00357 POD2</u>		СР	ED	4	3	1	24	19S	30E	600265	3612627* 🌍	3471	630		
											Avera	age Depth to Wat	er:	180 fee	t
												Minimum De	pth:	180 fee	t
												Maximum Dep	oth:	180 fee	t
Record Count: 5															
UTMNAD83 Radiu	<u>s Search (i</u>	<u>n meters</u>) <u>:</u>												
Easting (X): 603	3015.3		North	ning	; (Y):	3614	4745.1:	5		Radius: 4000				
*UTM location was derived	from PLSS	- see Help	,												
The data is furnished by the laccuracy, completeness, reliable										nderstanding 1	hat the OSE/ISC m	ake no warranties,	expressed or in	plied, concern	ing the
12/6/22 1:21 PM												WATER COL	UMN/ AVER	AGE DEPTH	I TO

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Point of Diversion Summary

Vell Tag POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (N Q64 Q16 Q4 Sec Tws Rng	NAD83 UTM in meters) X Y
A CP 01907 POD1	4 2 2 18 19S 31E 6	03017 3614737 🌍
riller License: 1249 riller Name: JACKIE ATKINS	Driller Company: ATKINS ENGI	NEERING ASSOC. INC.
•ill Start Date: 07/13/2022	Drill Finish Date: 07/13/2022	Plug Date:
g File Date: 08/11/2022	PCW Rcv Date:	Source:
1р Туре:	Pipe Discharge Size:	Estimated Yield:
ing Size:	Depth Well:	Depth Water:

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.

12/6/22 1:21 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NC	OSE POD NO. (W POD 1 (TW-1		.)		WELL TAG ID NO N/A			OSE FILE NO(CP-1907	S).					
OCATI	WELL OWNER N Devon Energy							PHONE (OPTIONAL) 575-748-1838						
WELL L	WELL OWNER M 6488 7 Rivers		ADDRESS					CITY Artesia		STATE NM	88210	ZIP		
GENERAL AND WELL LOCATION	WELL LOCATION	LAT	DE	GREES 32	minutes 39	s 5 N		REQUIRED: ONE TE	NTH OF A	SECOND				
ER/	(FROM GPS)	LON	NGITUDE	103	54	4.95	w	* DATUM RE	QUIRED: WGS 84					
1. GET			IG WELL LOCATION TO	STREET ADD	RESS AND COMMO	N LANDMAN	RKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) W	HERE AV	AILABLE			
	LICENSE NO. 1249		NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL D Atkins Er		COMPANY g Associates, I	nc.		
	DRILLING STAR 7/13/202		DRILLING ENDED 7/13/2022		MPLETED WELL (F mporary Well	LE DEPTH (FT) ±55) DEPTH WATER FIRST ENCOUNTERED (FT) N/A							
z	COMPLETED W	ELL IS:	ARTESIAN	V DRY HOI	FINED)		WATER LEVEL PLETED WELL	N/A	DATE STATIC 7/13/2022,					
TIO	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:													
2. DRILLING & CASING INFORMATION	DRILLING METH		ROTARY HAMN		LE TOOL 🔽 OTH		FY:]	Hollow Stem	Auger CHEC	K HERE I	F PITLESS ADA	PTER IS		
	DEPTH (fee FROM	t bgl) TO	BORE HOLE DIAM (inches)	(include	(include each casing string, and T			ASING NECTION TYPE pling diameter)	CASING INSIDE DIAM. (inches)	TH	SING WALL IICKNESS (inches)	SLOT SIZE (inches		
G&CA	0	55	±6.5	litte	Boring-HSA	,	(and con)			-	-	-		
RILLIN										-				
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ERIAL	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE	E-RANGE I	BY INT	ERVAL	(cubic feet)		PLACEN	AENT		
ANNULAR MATERIAL		-							05200.40	6112	022 = 34	-		
NNUL			1											
3. A														
FOR	OSE INTERNA	LUSE						WR-2	0 WELL RECORD	& LOG	(Version 01/2	8/2022)		
	00	-		Tw	-1 POD NO	D.		TRN		16	2	,,		
LOC	CATION	a.	31.18.42	27			_	WELL TAG I	D NO.	-	PAGE	1 OF 2		

	DEPTH (f	eet bgl)	A	COLOR AND TYPE OF MATERIAL ENCOUNTERED		WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE 2 (attach supplemental sheets to fully describe all units)	ONES	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0	29	29	Sand, Medium/ Fine grained, poorly graded, Light brown		Y 🖌 N	
	29	44	15	Sand, Medium/ Fine grained, poorly graded, with caliche Light bro	wn / white	Y √N	
	44	55	11	Sand, Medium/ Fine grained, poorly graded, Light brown		Y √N	
						Y N	
						Y N	
1						Y N	
		1				Y N	
5						Y N	
3		1				Y N	
		1				Y N	
						Y N	
CEO						Y N	
DY						Y N	
4. HIDROGEOLOGIC LOG OF WELL						Y N	
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	(Y N	
						Y N	
			1			Y N	
						Y N	
						Y N	
	i.					Y N	
	METHOD U	11.7	STIMATE YIELD	OF WATER-BEARING STRATA: BAILER DOTHER – SPECIFY:	1.	AL ESTIMATED LL YIELD (gpm):	0.00
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LEST; KIG SUFEKVISION			be	emporary well material removed and soil boring backfilled usi slow ground surface(bgs), then hydrated bentonite chips ten fe	et bgs to su	rface.	
2	PRINT NAM	E(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL	CONSTRU	CTION OTHER TH	AN LICENSEI
ń	Shane Eldrid	lge, Came	ron Pruitt				
DIGINALUKE	CORRECT F	ECORD C	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS W 80 DAYS AFTER COMPLETION OF WELL DRILLING:	BELIEF, T ELL RECOF	HE FOREGOING I RD WITH THE STA	S A TRUE AN TE ENGINEE
O. SIGN	Jack Ar	kins		Jackie D. Atkins	_	8/4/2022	
•		SIGNA	TURE OF DRILLI	ER / PRINT SIGNEE NAME		DATE	
	OFF BUTTER	IAT HOP			WELLDE	COPD & LOC (V-	reion 01/20/202
20	R OSE INTERI	NAL USE			WELL RE	CORD & LOG (Ver	sion 01/28/202
	ENO. CP	-190	7-DAL	TRN M	10	2616	7



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

	category.	
Gro	oundwater	\

Data Catagory

Geographic Area:

GO

×

Click to hideNews Bulletins

• See the <u>Water Data for the Nation Blog</u> for the latest news and updates.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 323810103511401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323810103511401 19S.31E.27.214121

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°38'10", Longitude 103°51'14" NAD27 Land-surface elevation 3,480 feet above NGVD29 The depth of the well is 210.00 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer. **Output formats**

<u>Table of data</u>

Tab-separated data

<u>Graph of data</u>

Reselect period



USGS 323810103511401 195,31E,27,214121

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-12-06 15:24:07 EST 0.53 0.46 nadww01



Received by OCD: 3/21/2023 10:58:59 AM Arcturus 18 Fed 5H Devon Energy API#30-015-41802 Eddy County, NM Surface Water Map -Salt Pond Arcturus 18 Fed 5H

Page 20 of 102

Legend

3

🍰 2.72 Miles

Salt Pond

A N

2 mi

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Google Earth



Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 6 to 14 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent Minor components: 1 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand *H2 - 12 to 58 inches:* sandy clay loam *H3 - 58 to 60 inches:* clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Ecological site: R042XC007NM - Loamy *Hydric soil rating:* No

Minor Components

Pajarito

Percent of map unit: 1 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



Received by OCD: 3/21/2023 10:58:59 AM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

Page 24 of 102

103°54'22"W 32°40'10"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - — – – Channel, Culvert, or Storm Sewer GENERAL STRUCTURES LIIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation AREA OF MINIMAL FLOOD HAZARD Eddy County **Coastal Transect** Base Flood Elevation Line (BFE) Zd e X 350120 Limit of Study Jurisdiction Boundary — --- Coastal Transect Baseline OTHER **Profile Baseline** 35015C0650D FEATURES Hydrographic Feature eff. 6/4/2010 **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/6/2022 at 3:27 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for 103°53'44"W 32°39'40"N Feet 1:6.000 unmapped and unmodernized areas cannot be used for

Releasea to Imaging: 4/10/2023 995:48 AM 1,500 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

U.S. Fish and Wildlife Service National Wetlands Inventory

Wetlands Map



December 6, 2022

Wetlands

0

C

Estuarine and Marine Deepwater

Released to Imaging: 4/10/2023 7:55:48 AM

- Estuarine and Marine Wetland
- **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine wetlands_team@fws.gov

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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Appendix C

C-141 Form

1625 N. French Dr., Hobbs, NM 88240 Energy Mineral <u>District III</u> Oil Conse 1000 Rio Brazos Road, Aztec, NM 87410 1220 Sou <u>District IV</u> 1220 Sou 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa I	Prage 27 lof 102 MM OIL CONSERVATION ARTESIA DISTRICT s and Natural Resources arresta District bervation Division th St. Francis Dr. Fe, NM 87505 Defervation Corrective Action OPERATOR OPERATOR Contact Rudy Zuniga, Production Foreman Telephone No. 575-390-5435				
Facility Name Arcturus 18 Fed 5H	Facility Type Oil				
Surface Owner Federal Mineral Owner	er Federal API No. 30-015-41802				
-	DN OF RELEASE				
Unit LetterSectionTownshipRangeFeet from theNorA1819S31E845	th/South Line Feet from the East/West Line County FNL 250 FEL Eddy				
Latitude: 32.6653332'N	Longitude: 103.9008789'W E OF RELEASE				
Type of Release Oil & Produced Water	Volume of Release 20bbls Volume Recovered 20bbls				
Source of Release H.F. back pressure valve	Date and Hour of Occurrence Date and Hour of Discovery				
Was Immediate Notice Given?	May 6, 2015 6:30 AM May 6, 2015 6:30 AM If YES, To Whom? Jeff Robertson, BLM Mike Bratcher, OCD				
By Whom? Lynn Smith, Asst. Production Foreman	Date and Hour Jeff Robertson, BLM May 6, 2015 8:57 AM Mike Bratcher, OCD May 6, 2015 8:59 AM				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse N/A				
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* On May 6, 2015 6:30 AM the Lease Operator was contacted and told th arrival to the location he discovered a H. F. back pressure valve had wa	nat the Arcturus 18 Fed 5H was leaking from the well head, upon Lease Operator's shed out releasing 20bbls of oil and produced water mix onto location.				
Describe Area Affected and Cleanup Action Taken.* The affected area was 48x85 with all fluids contained on location. Leg contaminated dirt will be removed from location and replaced with fres	endary Trucking recovered all 20bbls of oil and produced water mix and the h dirt.				
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed	to the best of my knowledge and understand that pursuant to NMOCD rules and e notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability iate contamination that pose a threat to ground water, surface water, human health t does not relieve the operator of responsibility for compliance with any other				
Signature: Sheila Fisher	OIL CONSERVATION DIVISION				
Printed Name: Sheila Fisher	Approved by Environmental Specialist:				
Title: Field Admin Support	Approval Date: D[11]]b Expiration Date: N H				
E-mail Address: Sheila.Fisher@dvn.com	Conditions of Approval:				
Date: Phone: 575.748.1829 * Attach Additional Sheets If Necessary	ATER THAN: 11215 APROPOSAL NO				
	LKF-2448				

۰.

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?	<u>180</u> (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.

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
- 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
- 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.

age 2	0:58:59 AM State of New Mexico		Page 29 of
ige 2		Incident ID	NAB1513157754
	Oil Conservation Division	District RP	2RP-2998
		Facility ID	
		Application ID	
regulations all operators are requipublic health or the environment. failed to adequately investigate an	ion given above is true and complete to the best of my ired to report and/or file certain release notifications ar . The acceptance of a C-141 report by the OCD does n nd remediate contamination that pose a threat to groun -141 report does not relieve the operator of responsibil all	nd perform corrective actions for re not relieve the operator of liability s dwater, surface water, human healt	leases which may endanger hould their operations have h or the environment. In èderal, state, or local laws
OCD Only Received by:	E	Date:	

Incident ID	NAB1513157754
District RP	2RP-2998
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.

<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)

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: Dale Woodall

Signature: Dale Woodall Date: 1/3/2023

email: dale.woodall@dvn.com Telephone: 575-748-1848

OCD Only

Received by:

Date:_____

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:	Date:
Printed Name:	Title:



Appendix D

Laboratory Reports



September 03, 2020

CHRIS JONES PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS, NM 88240

RE: ARCTURUS 18 FED 5H

Enclosed are the results of analyses for samples received by the laboratory on 09/01/20 8:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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



DEVON - EDDY CO NM

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

Analytical Results For:

	PIMA ENVIROM CHRIS JONES 1601 N TURNE HOBBS NM, 88 Fax To:	R STE. 500		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson

Sample ID: S1 - 0-6" (H002305-01)

Project Location:

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	09/01/2020	ND	1.94	96.9	2.00	3.75	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	2.88	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.94	97.2	2.00	1.75	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	1.50	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	123 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	133 9	42.2-15	1						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S2 - 0-6" (H002305-02)

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	09/01/2020	ND	1.94	96.9	2.00	3.75	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	2.88	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.94	97.2	2.00	1.75	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	1.50	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	127 9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	136 9	42.2-15							

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S2 - 1' (H002305-03)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2020	ND	1.94	96.9	2.00	3.75	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	2.88	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.94	97.2	2.00	1.75	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	1.50	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	416	104	400	3.92	
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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	124 % 44.3-14		4						
Surrogate: 1-Chlorooctadecane	136 9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S2 - 2' (H002305-04)

BTEX 8021B Analyte	mg/kg		Analyzed By: ms						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2020	ND	1.96	97.8	2.00	1.47	QR-03
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	QR-03
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	QR-03
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	QR-03
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	416	104	400	3.92	
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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	135 % 44.3-14		4						
Surrogate: 1-Chlorooctadecane	148 9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S2 - 3' (H002305-05)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	131	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	141	% 42.2-15	6						

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	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S3 - 0-6" (H002305-06)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	164	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	297	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	115 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130 \$	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S3 - 1' (H002305-07)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	25.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	125	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	139	42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S3 - 2' (H002305-08)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	120 \$	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	130 \$	% 42.2-15	6						

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Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S3 - 3' (H002305-09)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	129	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	141	% 42.2-15	6						

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	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S4 - 0-6" (H002305-10)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131 9	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S4 - 1' (H002305-11)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15	6						

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Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S4 - 2' (H002305-12)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	125 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	138 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S4 - 3' (H002305-13)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	130 \$	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	136 9	% 42.2-15	1						

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Celey D. Keene, Lab Director/Quality Manager



	C 10 H	IMA ENVIROMENTAL HRIS JONES 601 N TURNER STE. 500 IOBBS NM, 88240 ax To:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S5 - 0-6" (H002305-14)

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	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	123 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	133 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S5 - 1' (H002305-15)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/01/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/01/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/01/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	138 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	151 9	% 42.2-15	1						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S5 - 2' (H002305-16)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	128	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	140	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S5 - 3' (H002305-17)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	127	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	139	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S6 - 0-6" (H002305-18)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	124	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	136	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S6 - 1' (H002305-19)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	144 9	42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S6 - 2' (H002305-20)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/02/2020	ND	400	100	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	09/01/2020	ND	214	107	200	0.909	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	227	113	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	128	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	141	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S6 - 3' (H002305-21)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	142 9	42.2-15	6						

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Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S7 - 0-6" (H002305-22)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	139 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	150 9	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S7 - 1' (H002305-23)

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	09/02/2020	ND	1.96	97.8	2.00	1.47	
Toluene*	<0.050	0.050	09/02/2020	ND	1.97	98.3	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.92	95.9	2.00	0.956	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.93	98.8	6.00	0.879	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	136 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	149 9	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S7 - 2' (H002305-24)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	132 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	144 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S7 - 3' (H002305-25)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	129 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	140 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S8 - 0-6" (H002305-26)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	112 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S8 - 1' (H002305-27)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	136 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S8 - 2' (H002305-28)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/02/2020	ND	400	100	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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	140 \$	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	143 9	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S8 - 3' (H002305-29)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/02/2020	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	145	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	149	% 42.2-15	6						

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Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S9 - 0-6" (H002305-30)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	141 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	142 9	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S9 - 1' (H002305-31)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	139 9	42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S9 - 2' (H002305-32)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	130	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	138	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S9 - 3' (H002305-33)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	139	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	146	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S10 - 0-6" (H002305-34)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	135	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	142	% 42.2-15	6						

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Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S10 - 1' (H002305-35)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	133 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	140 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S10 - 2' (H002305-36)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/02/2020	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	zed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	141	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	148	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 500 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S10 - 3' (H002305-37)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	138	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	144	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S11 - 0-6" (H002305-38)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	31.8	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	136	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	153	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S11 - 1' (H002305-39)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	143	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	152	% 42.2-15	6						

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	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S11 - 2' (H002305-40)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/02/2020	ND	164	82.0	200	7.76	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	168	84.0	200	5.47	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	141	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	152	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S11 - 3' (H002305-41)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	134	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	146	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S12 - 0-6" (H002305-42)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	120	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135	42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S12 - 1' (H002305-43)

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	09/02/2020	ND	1.90	94.9	2.00	7.76	
Toluene*	<0.050	0.050	09/02/2020	ND	1.89	94.5	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.88	93.8	2.00	8.05	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.82	97.0	6.00	6.94	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	143	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	164	% 42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S12 - 2' (H002305-44)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	134	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	153	42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	10	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S12 - 3' (H002305-45)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	127 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	146 9	42.2-15	6						

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Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S13- 0-6" (H002305-46)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S13- 1' (H002305-47)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	138	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	154	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S13- 2' (H002305-48)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	432	108	400	7.69	
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	09/01/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	127	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	139	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S13- 3' (H002305-49)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	131	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	144	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S14- 0-6" (H002305-50)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	130	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	146	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S14- 1' (H002305-51)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	116 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	129	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S14- 2' (H002305-52)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	123	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	134	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	00	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S14- 3' (H002305-53)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	137	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	152	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S15- 0-6" (H002305-54)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	126	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	139	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S15- 1' (H002305-55)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	189	94.7	200	1.20	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	206	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	133	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	146	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S15- 2' (H002305-56)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	194	96.8	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	203	101	200	0.0513	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	114 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124 9	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S15- 3' (H002305-57)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	194	96.8	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	203	101	200	0.0513	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	126 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135 9	42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	PIMA ENVIROMENTAL CHRIS JONES 1601 N TURNER STE. 50 HOBBS NM, 88240 Fax To:	0	
Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/03/2020	Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H	Sampling Condition:	Cool & Intact
Project Number:	46	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM		

Sample ID: S16- 0-6" (H002305-58)

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	09/02/2020	ND	2.07	103	2.00	5.26	
Toluene*	<0.050	0.050	09/02/2020	ND	2.08	104	2.00	5.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	2.06	103	2.00	4.93	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.96	99.3	6.00	4.77	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	194	96.8	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	203	101	200	0.0513	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	123	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	132	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	C 1(H	IMA ENVIROMENTAL HRIS JONES 601 N TURNER STE. 500 IOBBS NM, 88240 ax To:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S16- 1' (H002305-59)

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	09/02/2020	ND	1.90	94.8	2.00	7.17	
Toluene*	<0.050	0.050	09/02/2020	ND	1.92	96.0	2.00	6.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.91	95.6	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.87	97.9	6.00	6.24	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	194	96.8	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	203	101	200	0.0513	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	126	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	134	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	C 10 H	IMA ENVIROMENTAL HRIS JONES 601 N TURNER STE. 500 IOBBS NM, 88240 ax To:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S16- 2' (H002305-60)

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	09/02/2020	ND	1.90	94.8	2.00	7.17	
Toluene*	<0.050	0.050	09/02/2020	ND	1.92	96.0	2.00	6.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.91	95.6	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.87	97.9	6.00	6.24	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/02/2020	ND	416	104	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	09/02/2020	ND	194	96.8	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/02/2020	ND	203	101	200	0.0513	
EXT DRO >C28-C36	<10.0	10.0	09/02/2020	ND					
Surrogate: 1-Chlorooctane	128	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	137	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	CHRIS 1601	ENVIROMENTAL S JONES N TURNER STE. 500 S NM, 88240 o:		
Received:	09/01/2020		Sampling Date:	08/31/2020
Reported:	09/03/2020		Sampling Type:	Soil
Project Name:	ARCTURUS 18 FED 5H		Sampling Condition:	Cool & Intact
Project Number:	46		Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY CO NM			

Sample ID: S16- 3' (H002305-61)

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	09/02/2020	ND	1.90	94.8	2.00	7.17	
Toluene*	<0.050	0.050	09/02/2020	ND	1.92	96.0	2.00	6.59	
Ethylbenzene*	<0.050	0.050	09/02/2020	ND	1.91	95.6	2.00	6.32	
Total Xylenes*	<0.150	0.150	09/02/2020	ND	5.87	97.9	6.00	6.24	
Total BTEX	<0.300	0.300	09/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/02/2020	ND	416	104	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	09/01/2020	ND	174	86.9	200	3.71	
DRO >C10-C28*	<10.0	10.0	09/01/2020	ND	177	88.6	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	09/01/2020	ND					
Surrogate: 1-Chlorooctane	134	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	142	42.2-15	6						

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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-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.
-	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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company name: PIWA ENDINOWENTAI	7	BILL TO			A	ANALYSIS REQUEST	
Project Manager: Chris Jones		P.O. #: 20869482	58				-
Address: 1601 N. Turner Ste	500	Company: DEVON	Z				
State: NI	Ohege :dizi	M	Bynum	_			
Phone #: 575-631-6977 Fax #:				_			
Project #: 46 Project Owner: Devon	". Devon	City:		_			
neturus 18		State: Zip:					
Project Location: Eddy COUNTY		#					_
Sampler Name: MARK NEWCOULD		Fax #:					
	MATRIX	FOEDV	MDI INC		0		
	S ER	PRESERV. SA	SAMPLING	EXT 1	ide		
Lab I.D. Sample I.D.	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME	TPH E BTEX Chioric	Chloric		
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I those for negligence and any other cause what dinal be table for incidental or consequental da put of or related to the performance of services	Essever's table the determed waived unless made in writing and received by Cardinal within 30 days after completion of the a transmit part of the sever's shall be determed waived unless made in writing and received by Cardinal within 30 days after completion of the a mages, including without firmitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiates s therunder by Cardinal, regardless of whether such climits is based upon any of the above stated reasons or otherwaives	 commen, or unit, sum be intract to the amount p writing and received by Cardinal within 300 days at multions, loss of use, or loss of profits incurred by uch claim is based upon any of the above stated r 	aid by the client for the fter completion of the applic / client, its subsidiaries. reasons or otherwise.	cable			
	Received By:	enson	Verbal Résult: All Results are	□ Yes emailed. P	□ No Ad lease provide	Verbal Résult: Ves No Add'I Phone #: All Results are emailed. Please provide Email address:	
Relinguished BY: Date: Time:	Received By:		REMARKS:	Bill -	bill to Deven	NON	
Sampler - UPS - Bus - Other: Corrected Temp. °C - 5.9	5.9 Sample Condition Cool Intact Pres Pres	on CHECKED BY:	Turnaround Time: Thermometer ID #113 Correction Factor None	he: St #113	Standard	ol Intact Yes Yes	ŏ
† Cardinal ca	Cardinal cannot accept verbal changes.	iges. Hease email changes to celey keene@cardinallabsnm.com	inges to celey.k	eene@cai	rdinallabsnm		Ċ

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima ENviromental	BILL TO	ANALVSIS DECLIEST	
Chris	L8469800 # 508		1
Address: 1601 N. TRINGE Ste SOO	Company: DEVOIN		
city: Hobbs state: NVM Zip: 88240	Attn: Tom Bynum		_
Phone #: 575-631-6977 Fax #:	Address:		_
Project #: 4 Project Owner: DEVON	City:		_
\$ 18	State: Zip:		
Project Location: Eddy County	e #:		
Sampler Name: WARK Newcourd	Fax #:		
	PRESERV. SAMPLING		_
	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TPH EX BTEX Chlorid	
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artifiates or successors analog out of or related to the performance of service narming in unumung	anim is based upon any of the above stated reasons or otherwise.	e emailed. Please provide Email address:	
Relinquished By: Date: Received By:	REMARKS:		
	A	Rill to Deven	
	CHECKED BY:		
FURM-000 R 3.1 00/04/20 + Cardinal cannot account of the	NO COTTECTION FACTOR NORE		L

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			1

Project Manager: Chr Address: 1601 N. City: 40665	N. TWHNER SHESDO N. TWHNER SHESDO State: N/M Zip: 88240		BILL TO P.O. #: 20869482 Company: Deven Company: Deven Attn: Town ByrNum
Project Name: Arch	urus 18 Fed SH	State	City: State: Zip:
Project Location: EL	by county	Ph	#
Sampler Name: Mr	MARK Newcourds	Fay	Fax #:
FOR LAB USE ONLY	IP.	MATRIX	PRESERV. SAMPLING
Lab I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER : DATE
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ers Sh	-3'	54	
40 S13	-1, -1, -1, -1, -1, -1, -1, -1, -1, -1,		
48 513	·2'		
50 SIL	50 $S 4 - O - 6''$ PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	arising whether based in contract or tort,	contract or fort, shall be limited to the amount paid by the client for the
atflutes or successors arising out of or related to the Relinquished By:	Time 3:12	Received By:	dum is based upon any of the above stated to
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C - Corrected Temp. °C	Sample Condition Cool Intact	CHECKED BY: Turmaround Time: Thermometer ID #11

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Location: Eddy Cou	ounty	Pho	Phone #:		-				
Sampler Name: MARK Ne	Newcomb	Fax #	(#:			e			
FOR LAB USE ONLY	2	MATRIX	PRESERV. SA	SAMPLING	Ex	iJ			
Lab I.D. Sample I.D.	D NRAB OR (C)OMP CONTAINERS	ROUNDWATER ASTEWATER DIL L LUDGE THER :	CID/BASE: E / COOL THER :		TPH E	BTEX			
51 SIH - 1'		-	-		-	-			
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1-515 55						-	-		
15-515 95									
59 516-11					_	-	+	-	
60 SIV - 2: PLEASE NOTE: Liability and Damagers. Condiman's liability and client's exclusive inmedy for any claim arising whether trased in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Caudinal within 30 days after completion of the spolicable	Sent's exclusive remedy for any claim arisis	ing whether based in contract or fort, and unless made in writing and receiv	shall be limited to the amount of by Cardinal within 30 days a	paid by the client for the	applicable	8	_	_	
animites of successors animing 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 measures or otherwise. Relinquished By: Dets::://NURReceived By: Dets::://NURReceived By: Verbail Results and the successors of the successo	Time 8:12 U	Received By:	MDUM_	Verbal Result: All Results are	ılt: □ \ ıre emaile	Yes D No led. Please pro	sons or otherwise. Verbal Result:	le #: Idress:	
Relinquished By:	Date: Recer	Received By:		REMARKS:	P.I	(5	ill to Devon	Z	
Delivered By: (Circle One) C Sampler - UPS - Bus - Other: C	Observed Temp. °C , 3.9 Corrected Temp. °C	Sample Condition Cool Intact Pres Pres	CHECKED BY:	Turnaround Time: Thermometer ID #113 Correction Factor None	9	Standard	Cool DCool	Bacteria (only) S Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes
	† Cardinal cannot a	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	. Please email ch	anges to cele	y.keene(@cardinalla			

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City:

Hobbs

Address: 1601

N.

Turner Ste 500

State: NVN Zip: 88240

Attn:

TOW BYNUM

Company: DEVON 28460800 # 008 PM

BILL TO

ANALYSIS REQUEST

Address:

Project Manager: Chris JONCS

Company Name: Pfwc ENVIROMENTAL

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Phone #: 575-631-6977 Fax #:

Project Name: Arcturus 18

Project #:

46

Project Owner: Fed SH

Devon

State: City:

Zip:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-000 K 3. (00/04/2)	Relinguished By:	Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negleproc and any terrice. In no event shall Cardinal be liable for incidential or oth events. In no event shall Cardinal be liable for incidential or statisticates or successors arising out of or related to the performant affiliates or successors arising out of or related to the performant affiliates.		- 915 M		FOR LAB USE ONLY	Sampler Name: WARK	Project Location: Eddy	Project Name: WYCHU		# 5	1.4.	1601	Project Manager:	101 East (575) 39	Labo
Corrects	Time:	Times: 12 LOOU	liability and cli and any other fental or conse e performance		€ (G)R # CC	AB OR (C)OM DINTAINERS	ИP.	N	y County	Project Name: IArcturus 18 Fed SH	Project Owner: DO LOON	75-1031-16977 Fax#:	1	T. MOL LID CON	LINA UNUL TOMPNAL	3 0	aboratories
Ind Temp. °C - S. Y Sample Condition CHECKED BY: Turnaround Time: Standard Ba Ind Temp. °C Cool Titact Unitials Thermometer ID #113 Cool Ind Temp. °C No No No Correction Factor None Correction Factor None		Henson	ent's exclusive remedy for any claim arising whether based in contract or tort, shall be infinded to the normout gold by the client for the cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable quenta damages, including without imitation, business interruptions, loss of toss, of roles incurred by client. Its subsidiaries, of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.			DGE ER : //BASE: / COOL	MATRIX PRESERV. SAMPLING	Fax #:	Phone #:			Address:	CHIC Atta: Town Ryshins		BILL TO		CHAI
Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 Correction Factor None No Corrected Temp. °C	t	Verbal Result: Ves No Add'I Phone #: All Results are emailed. Please provide Email address:			< Ti	SHE STEX Chlor	id								ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 101 70f 102

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:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	199271
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
bhall	Site must meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	4/10/2023

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Action 199271