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

Responsible Party: BPX Energy

Contact email: steven.moskal@bpx.com

Contact Name: Steve Moskal

State of New Mexico Energy Minerals and Natural Resources Department

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

Initial/Final Report

Incident ID	
District RP	
Facility ID	
Application ID	

NOS18 33832851

### **Release Notification**

### **Responsible Party**

OGRID: 778

Contact Telephone: (505) 330-9179

Incident # (assigned by OCD)

Contact mailing address: 1199 Main Ave. Suite 101, Durango CO, 81301							
			Location	n of R	delease S	Source	
Latitude: 36.	850052°		(NAD 83 in a	decimal de	Longitude:	-107.630781° imal places)	
Site Name:	NORTHEAS	ST BLANCO UNI	T #409A		Site Type	: Salt Water Disp	posal Well
Date Releas	e Discovered	d: November 19, 2	018		API#: 30-	045-27340	
Unit Letter	Section	Township	Range		Coun	ty	
N	36	T31N	R08W	San J	uan		NMOCD
Surface Own	er: 🛛 State	Federal 7	Tribal Private	(Name:			NOV 28, 2018
			Nature an	d Vo	lume of	Release	DISTRICT III
Crude Oi		al(s) Released (Select Volume Release		ch calculat	tions or specifi	Volume Recov	e volumes provided below)
⊠ Produced	Produced Water Volume Released (bbls): <u>55 bbls</u>			Volume Recovered (bbls): <u>25 bbls</u>			
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		in the	Yes No	)	
Condensa	te	Volume Released (bbls):			Volume Recov	vered (bbls):	
Natural G	Natural Gas Volume Released (Mcf)			Volume Recov	vered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provide	e units)		Volume/Weigh	nt Recovered (provide units)
Cause of Rel	ease:						
		e on suction side of the content of				remained on pa	d and in secondary containment berms.



### State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
⊠ Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Cory Smith with the NMC	OCD was contacted by Jeff Blagg in person at the NEBU 409A during a sampling event.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.
	s been secured to protect human health and the environment.
Released materials ha	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed and managed appropriately.
If all the actions described	l above have not been undertaken, explain why:
Approximately 25 bbls of	water was recovered via vac truck.
71	
Dor 10 15 20 9 D (4) NM	AC the responsible porty may communicate and distinction in an alies to the discount of a release. If any distinct
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are republic health or the environmental failed to adequately investigations.	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: _Steve Mo.	Skal Title: <u>Environmental Coordinator</u>
Signature:	Date: November 27, 2018
email:steven.moskal@	bpx.com Telephone: (505) 330-9179
OCD Only  Received by:	Date: 12/4/12/

### State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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?			
Did the release impact areas <b>not</b> 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 well 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 (Non-Applicable; surficial water release with no further action based on lab results)  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody	s.		

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.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	
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regulations all operators are required to report and/or file public health or the environment. The acceptance of a C failed to adequately investigate and remediate contamina	and complete to the best of my knowledge and understand that pursuant to OCD rules and the certain release notifications and perform corrective actions for releases which may endanger C-141 report by the OCD does not relieve the operator of liability should their operations have ation that pose a threat to groundwater, surface water, human health or the environment. In lieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Steve Moskal	Title: Environmental Coordinator
Signature: Alexandria	Date: November 27, 2018
email:steven.moskal@bpx,com	Telephone: (505) 330-9179
OCD Only	
Received by:	Date:

### State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.			
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>			
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Title:			
Signature: Date:			
email: Telephone:			
OCD Only			
Received by: Date:			
Approved			
Signature: Date:			

## State of New Mexico Oil Conservation Division

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

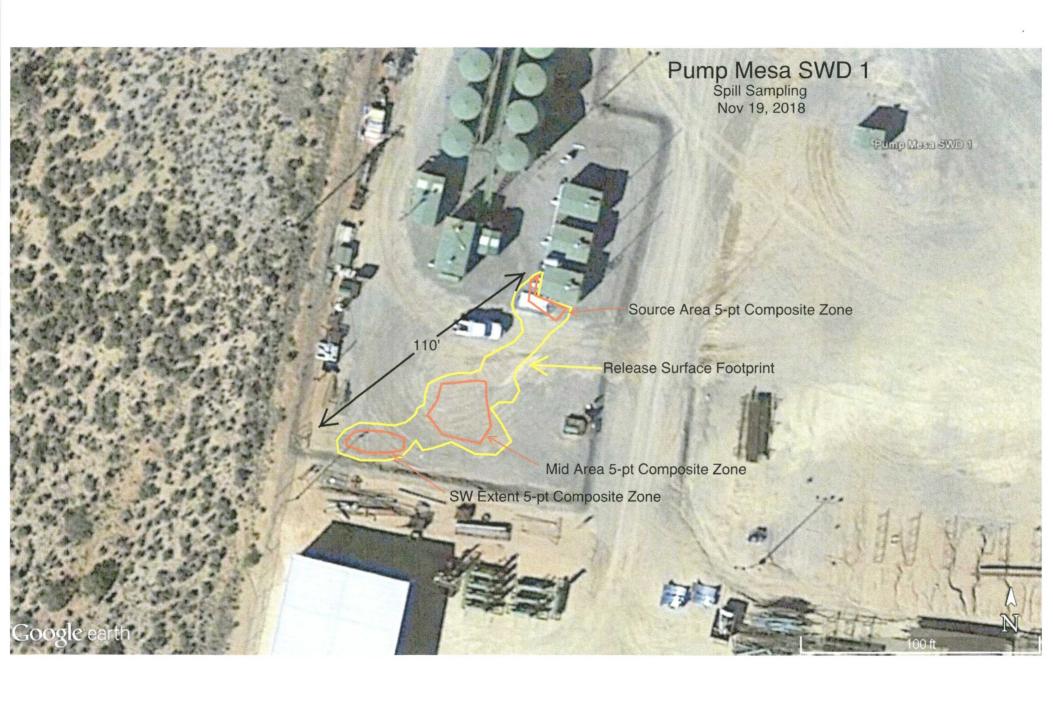
Incident ID	
District RP	
Facility ID	
Application ID	

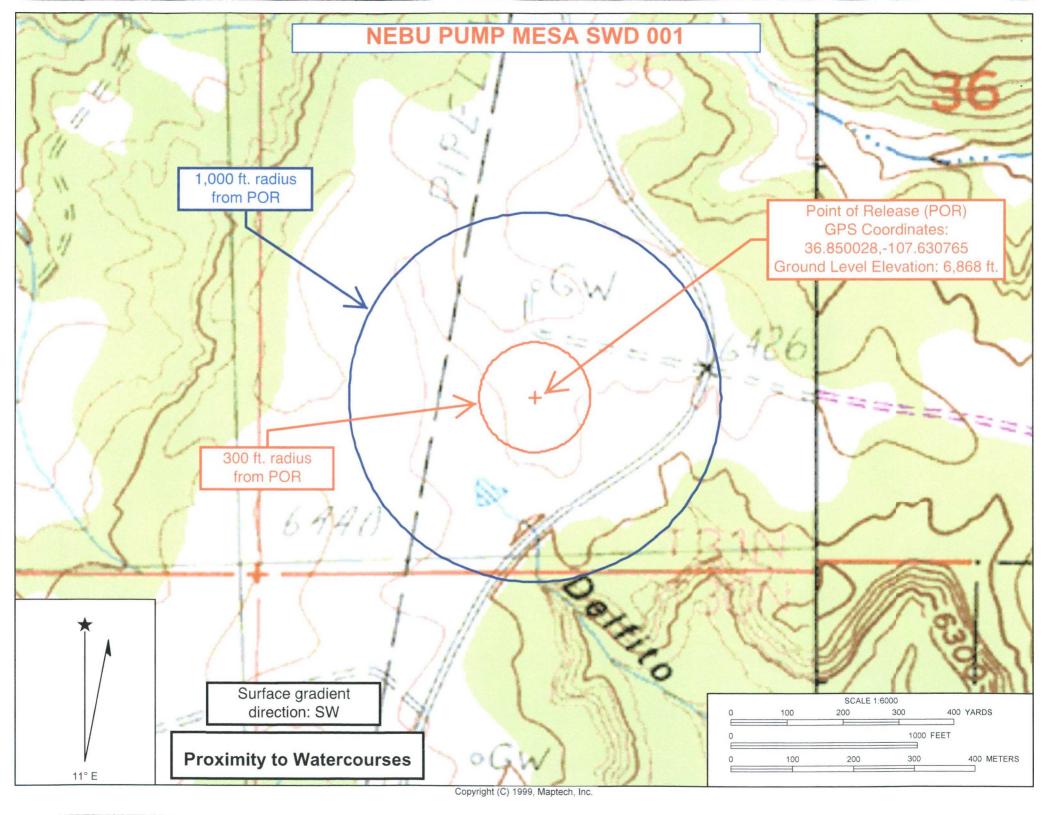
### Closure

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

□ 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: Steve Moskal Title: Environmental Coordinator  Date: November 27, 2018  Environmental Coordinator  Telephone: (505) 330-9179
Received by: Date: 11/28/18
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 of 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: 12/4/18
Printed Name: Cory Title: Frustonmental Sec.

# Figures & Depth To Water Information











# New Mexico Office of the State Engineer Wells Without Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

- /	/												
		POD			q	q	q						
POD Number	Code	Subbasin	County	Source	64	16	4	Sec	Tws	Rng	X	Υ	Distance
SJ 02094		SJM2	SJ		1	3	1	03	30N	11W	264310	4080788 🌍	1320
SJ 00614		SJ	SJ			3	3	25	31N	W80	265228	4082969* 🌑	1514
SJ 00615		SJ	SJ			3	4	25	31N	W80	266023	4082942* 🌍	1583
SJ 01818		SJ	SJ			3	4	25	31N	W80	266023	4082942*	1583
SJ 02029		SJ	SJ		1	1	3	25	31N	W80	265134	4083462*	2016
SJ 01812		SJ	SJ					25	31N	W80	265831	4083572*	2138
SD 06419		SJPR	SJ			1	4	06	30N	07W	267239	4080285*	2152
SJ 01011		SJ	SJ			3	3	24	31N	W80	265257	4084545*	3081

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 265441.31 Northing (Y): 4081469.25 Radius: 3200

<sup>\*</sup>UTM location was derived from PLSS - see Help



# New Mexico Office of the State Engineer Point of Diversion with Meter Attached

No PODs found.

UTMNAD83 Radius Search (in meters):

Easting (X): 265441.31

Northing (Y): 4081469.25

Radius: 3200

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.



### New Mexico Office of the State Engineer

## Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right

(R=POD has been replaced, O=orphaned,

O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

	POD											
	Sub-		q q q						Log File	Depth	Depth	License
POD Number	Code basin Count	y Source	6416 4	Sec	Tws Rng	X	Υ	Distance Start Date	Finish Date Date	Well	Water Driller	Number
SJ 03306	SJ SJ	Shallow	4 4 1	25	31N 08W	265739	4083645*	2196 11/03/2003	11/17/2003 11/26/2003	600	500 MARK BAILEY	1357
SJ 01822	SJ SJ	Shallow	2 2 2	25	31N 08W	266540	4084216*	2958 10/25/1996	10/26/1996 01/10/1997	550	500 HARGIS, JOHN C.	724
SJ 01167	SJ SJ	Shallow	3 4 4	24	31N 08W	266352	4084410*	3078 02/21/1981	02/28/1981 03/03/1981	465	390 JOHN MATTICS	777

#### **Record Count: 3**

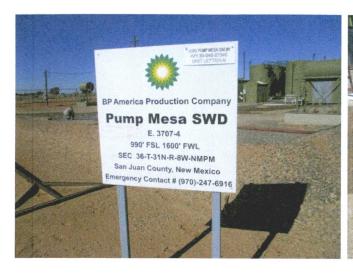
### UTMNAD83 Radius Search (in meters):

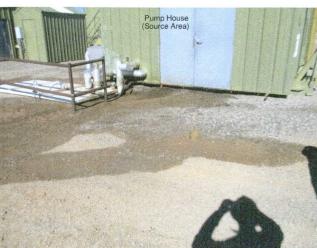
Easting (X): 265441.31 Northing (Y): 4081469.25 Radius: 3200

\*UTM location was derived from PLSS - see Help

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.

## **Photographic Log**













# Laboratory Report



### **Analytical Report**

### **Report Summary**

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 11/19/2018 3:07:00PM

Job Number: 03143-0424

Work Order: P811057
Project Name/Location: Pump Mesa SWD

Report Reviewed By:	Walter Hinderson	Date:	11/26/18	
	Walter Hinchman, Laboratory Director			
		Date:	11/26/18	

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Project Name:

Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal

Reported: 11/26/18 15:38

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Source Area 5-Pt	P811057-01A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
Mid Area 5-Pt	P811057-02A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
SW Extent 5-Pt	P811057-03A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.



Project Name:

Pump Mesa SWD

PO Box 22024

Tulsa OK, 74121-2024

Project Number:

03143-0424

Project Manager: Steve Moskal

**Reported:** 11/26/18 15:38

### Source Area 5-Pt P811057-01 (Solid)

			37-01 (30	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	381	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	103	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	484	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	484	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	494	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	1260	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-	150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		93.1 %	50-	-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	364	20.0	mg/kg	1	1847012	11/20/18	11/20/18	EPA 300.0/9056A	



Project Name:

Pump Mesa SWD

PO Box 22024

Tulsa OK, 74121-2024

Project Number: Project Manager: 03143-0424 Steve Moskal Reported:

11/26/18 15:38

### Mid Area 5-Pt P811057-02 (Solid)

		Reporting	37-02 (30	nu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	440	25.0	mg/kg	1	1847016	11/20/18	11/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	461	50.0	mg/kg	1	1847016	11/20/18	11/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		90.4 %	50-	-200	1847016	11/20/18	11/21/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	776	20.0	mg/kg	1	1847012	11/20/18	11/20/18	EPA 300.0/9056A	



Tulsa OK, 74121-2024

Project Name:

Pump Mesa SWD

PO Box 22024

Project Number: Project Manager: 03143-0424

Reported: 11/26/18 15:38

Steve Moskal

SW Extent 5-Pt P811057-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	307	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	307	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	307	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	365	25.0	mg/kg	1	1847016	11/20/18	11/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	270	50.0	mg/kg	1	1847016	11/20/18	11/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50-	-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		93.9 %	50-	-200	1847016	11/20/18	11/21/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1020	20.0	mg/kg	1	1847012	11/20/18	11/20/18	EPA 300.0/9056A	



Tulsa OK, 74121-2024

Project Name:

Pump Mesa SWD

PO Box 22024

Project Number: Project Manager: 03143-0424 Steve Moskal Reported:

11/26/18 15:38

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Potch 1947017 Durgo and Tran EDA 5020A										
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared: 1	11/20/18 0 A	Analyzed:	11/20/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100	**							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200								
o-Xylene	ND	100	10							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7900		"	8000		98.8	50-150			
LCS (1847017-BS1)				Prepared: 1	11/20/18 0 A	Analyzed:	11/20/18 1			
Benzene	5070	100	ug/kg	5000		101	70-130			
Toluene	5180	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	11	10000		108	70-130			
o-Xylene	5230	100	**	5000		105	70-130			
Total Xylenes	16000	100	"	15000		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			
Matrix Spike (1847017-MS1)	Sou	rce: P811050-	01	Prepared: 1	1/20/18 0 A	Analyzed:	11/21/18 0			
Benzene	5370	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5500	100	"	5000	ND	110	61.4-130			
Ethylbenzene	5600	100		5000	ND	112	61.4-133			
p,m-Xylene	11400	200	**	10000	ND	114	63.3-131			
o-Xylene	5520	100	100	5000	ND	110	63.3-131			
Total Xylenes	17000	100	11	15000	ND	113	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			
Matrix Spike Dup (1847017-MSD1)	Sou	rce: P811050-	01	Prepared: 1	1/20/18 0 A	analyzed:	11/20/18 2			
Benzene	5270	100	ug/kg	5000	ND	105	54.3-133	1.89	20	
Toluene	5410	100	"	5000	ND	108	61.4-130	1.76	20	
Ethylbenzene	5510	100	**	5000	ND	110	61.4-133	1.54	20	
p,m-Xylene	11300	200	н	10000	ND	113	63.3-131	1.43	20	
o-Xylene	5470	100		5000	ND	109	63.3-131	0.982	20	
Total Xylenes	16800	100	W	15000	ND	112	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			
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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

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Tulsa OK, 74121-2024

Project Name:

Pump Mesa SWD

PO Box 22024

Project Number: Project Manager: 03143-0424 Steve Moskal

**Reported:** 11/26/18 15:38

### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1847016 - DRO Extraction EPA 3570										
Blank (1847016-BLK1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	**							
Surrogate: n-Nonane	45.6		"	50.0		91.2	50-200			
LCS (1847016-BS1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Diesel Range Organics (C10-C28)	456	25.0	mg/kg	500		91.2	38-132			
Surrogate: n-Nonane	43.1		"	50.0		86.3	50-200			
Matrix Spike (1847016-MS1)	Sou	rce: P811052-	01	Prepared:	11/20/18 0	Analyzed: 1	1/21/18 1			
Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500	ND	92.1	38-132			
Surrogate: n-Nonane	41.3		"	50.0		82.5	50-200			
Matrix Spike Dup (1847016-MSD1)	Sou	rce: P811052-	01	Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.5	38-132	0.361	20	
Surrogate: n-Nonane	40.3		"	50.0		80.6	50-200			



Project Name:

Pump Mesa SWD

PO Box 22024 Tulsa OK, 74121-2024 Project Number: Project Manager: 03143-0424 Steve Moskal **Reported:** 11/26/18 15:38

### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

	D. II	Reporting	** 12	Spike	Source	0/DEC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	KFD	Limit	Notes
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
LCS (1847017-BS2)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		"	8.00		106	50-150			
Matrix Spike (1847017-MS2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		"	8.00		105	50-150			
Matrix Spike Dup (1847017-MSD2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.1	70-130	16.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			



Project Name:

Pump Mesa SWD

PO Box 22024

Project Number: Tulsa OK, 74121-2024 Project Manager: 03143-0424 Steve Moskal Reported:

11/26/18 15:38

### Anions by 300.0/9056A - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847012 - Anion Extraction EPA 300.0/9	9056A									
Blank (1847012-BLK1)				Prepared &	Analyzed:	11/19/18 1				
Chloride	ND	20.0	mg/kg							
LCS (1847012-BS1)				Prepared &	Analyzed:	11/19/18 1				
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1847012-MS1)	Sour	ce: P811050-	01	Prepared &	Analyzed:	11/19/18 1				
Chloride	333	20.0	mg/kg	250	73.8	104	80-120			
Matrix Spike Dup (1847012-MSD1)	Sour	ce: P811050-	01	Prepared &	Analyzed:	11/19/18 1				
Chloride	332	20.0	mg/kg	250	73.8	103	80-120	0.457	20	



Project Name:

Pump Mesa SWD

PO Box 22024

Project Number:

03143-0424

Reported:

Tulsa OK, 74121-2024

Project Manager:

Steve Moskal

11/26/18 15:38

### **Notes and Definitions**

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

\*\*

Methods marked with \*\* are non-accredited methods.

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Page 10 of 11

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