Additional

Information

Submitted 10/26/2021

Rose-Coss, Dylan H, EMNRD

From: Rose-Coss, Dylan H, EMNRD

Sent: Friday, November 5, 2021 10:22 AM

To: Travis Hahn

Cc: Velez, Nelson, EMNRD

Subject: FW: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

Travis,

After taking a closer look at the open incident associated with the Centerpoint SWD (ID: NCS1805448077), it appears that the proper documentation (C-141) was never submitted. Additionally, since this incident occurred the "Release Rule" has changed and there is no written approved work plan on file. Therefore, the release is subject to the current regulations. At this point, to close the incident a new C-141 will need to be filed within the OCD permitting portal and the applicable rules under 19.15.29 NMAC will need to be adhered to.

Should you have questions regarding the new requirements and remediating the release, you may contact Nelson Velez (nelson.velez@state.nm.us) out of the Aztec office for further assistance.

Regards,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

C: (505) 372-8687



From: Rose-Coss, Dylan H, EMNRD

Sent: Thursday, November 4, 2021 12:13 PM **To:** Travis Hahn thahn@maralexinc.com

Cc: Goetze, Phillip, EMNRD < Phillip.Goetze@state.nm.us>; Murphy, Kathleen A, EMNRD

Subject: RE: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

Travis.

I reviewed the supplemental material and it does not satisfy the previous requests (see responses in red). Please be sure to verify that the request is fully satisfied before resubmitting any additional material.

- A wellbore history including any leaks and corresponding repairs previously made and specifically what was used to repair the well
 - Provide description of well repairs
- A record of Env compliance; all releases must be closed or in process
 - Correspondence re: closure report acceptance/denial/additional work
- Notice in the paper see requirement in NMAC 19.15.26 (C)
 - Evidence that the requirement was accomplished was not provided
- AOR wells that penetrate injection interval, and schematics of plugged wells
 - Not included
 - List in application only includes one well and does not indicate if penetrates injection interval
 - Review of OCD data indicates there are 7 wells within ½ mi AOR
- Source water analysis, and fresh water analysis
 - No source water analysis in app, or supplemental material
 - No statement regarding fresh water sampling,
 - Use OSE records to complete well search
 - List wells in AOR and depth to GW,
- List of affected parties that require notice
 - BLM or SLO or tribal notice
 - BLM does not appear to be noticed
 - No map supplied to identify land/lease ownership to verify notice
- Statement from qualified person endorsing application
 - Submit as PDF

Regards,

Dylan Rose-Coss

Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

C: (505) 372-8687



From: Travis Hahn < thahn@maralexinc.com>
Sent: Wednesday, October 27, 2021 3:39 PM

To: Rose-Coss, Dylan H, EMNRD < DylanH.Rose-Coss@state.nm.us>

Subject: RE: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

Thank you Dylan, I completely understand on the timeline.

Travis

On Wed, 27 Oct 2021 20:46:15 +0000, "Rose-Coss, Dylan H, EMNRD" < DylanH.Rose-Coss@state.nm.us> wrote:

Thanks Travis,

I'll take a look. Could take me a few days, but I'll let you know if it checks out.

Regards,

Dylan Rose-Coss

Petroleum Specialist

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

C: (505) 372-8687



From: Engineer, OCD, EMNRD < OCD.Engineer@state.nm.us>

Sent: Wednesday, October 27, 2021 1:43 PM

To: Rose-Coss, Dylan H, EMNRD < DylanH.Rose-Coss@state.nm.us>

Subject: FW: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

From: Travis Hahn < thahn@maralexinc.com Sent: Wednesday, October 27, 2021 1:12 PM

To: Engineer, OCD, EMNRD < OCD. Engineer@state.nm.us >

Subject: RE: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

Good afternoon Dylan, my week has been extremely busy it makes time fly by!

Good deal on the process, as long as I have a starting point. Thank you very much for helping me get the application complete. Attached is what I could find saved on this computer that looks like it might complete the Admin Checklist besides the newspaper notice. On the newspaper notice does it have to be a specific one?

Thank you again for your help with this application.

Travis Hahn Maralex Resources

Office: 970-563-4000 Cell: 575-640-9586
On Wed, 27 Oct 2021 17:41:35 +0000, "Engineer, OCD, EMNRD" < OCD.Engineer@state.nm.us wrote:
Hi Travis,
Yes, I'm having a good week. How about yourself?
In terms of the Centerpoint SWD application, you will have to update me on the status. I do not have record of any additional information from the application since the last correspondence. Had everything on the Admin Checklist and the list from the email been taken care of on your end and the only thing left was the newspaper notice? I don't have any additional material on my end.
Not sure if that helps, but let me know if you have any additional questions and we can work through them to get the application complete.
Regards,
Dylan Rose-Coss
Petroleum Specialist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
C: (505) 372-8687



From: Travis Hahn < thahn@maralexinc.com>
Sent: Tuesday, October 26, 2021 11:18 AM

To: Engineer, OCD, EMNRD < < OCD. Engineer@state.nm.us >

Subject: [EXTERNAL] Fwd: Centerpoint SWD application [pBL1932954303] SWD-2320

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Dylan, I hope you are having a good week.

I have taken over for Jordan at Maralex Resources and just trying to get up to date on everything. May I ask where we are on the Centerpoint SWD #1 ([pBL 1932954303] SWD - 2320) application? I was thinking Jordan mention we only need to put a notice in the local paper?

Thank you for all of your help,

Travis Hahn Maralex Resources, Inc. Office: 970-563-4000 Cell: 575-640-9586

----- Forwarded message ------

From: **Engineer**, **OCD**, **EMNRD** < <u>OCD</u>. <u>Engineer@state.nm.us</u>>

Date: Thu, Jan 16, 2020 at 10:18 AM

Subject: Centerpoint SWD application [pBL1932954303] SWD-2320 To: maralextech@gmail.com <maralextech@gmail.com></maralextech@gmail.com>
To whom it may concern,
After initial review of the Centerpoint SWD #1 ([pBL1932954303] SWD-2320) application, it has been determined that the Division will need the following information to consider the application complete:
 A wellbore history including any leaks and corresponding repairs previously made and specifically what was used to repair the well A record of Env compliance; all releases must be closed or in process Notice in the paper see requirement in NMAC 19.15.26 (C) AOR wells that penetrate injection interval, and schematics of plugged wells Source water analysis, and fresh water analysis List of affected parties that require notice
BLM or SLO or tribal notice
Statement from qualified person endorsing application
Thanks and let me know if you have any questions,
Regards,
Dylan Rose-Coss

Petroleum Specialist

Oil Conservation Division

1220 South St. Francis Drive

(505) 476-3477



--

Jordan Reid

Maralex Resources, Inc.

(970) 563-4000





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

Re: Centerpoint SWD - Application for Authorization to Inject

PO Number: UFY9G-191113-C-1080 Admin. App. No.: pBL1932954303

Affirmation Statement

To whom it may concern:

Complete inspection of this application to inject into the Centerpoint SWD (API 05-045-33464) located in Unit P, Section 24, Township 31N, Range 11W has resulted in my endorsement of the application as complete and within the rules and regulations of the permit. As a result, I (A.M. O'Hare) endorse this application as a petroleum engineer and certified professional engineer as complete.

Sincerely,

A.M. O'Hare, PE Manager





ATTN: Cory Smith New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

Re: Closure Request

Centerpoint SWD (API 05-045-33464)

Maralex Disposal, LLC Incident Number NCS

San Juan County, New Mexico

Dear Mr. Smith,

Maralex Disposal, LLC. present the following report detailing remediation of the impacted area located at Unit P, Section 24, Township 31N, Range 11W in San Juan County, New Mexico. The purpose of the soil sampling and remediation activities were to address impacts of the soil after a release of produced water from a workover rig into a temporary containment berm around the wellhead.

On February 23, 2018 Maralex Disposal (MDL) had a workover rig completing workover operations testing tubing integrity when a valve and nipple failed to hold back pressure during the procedure. Approximately 15 BBLS was released and contained within a temporary secondary berm constructed around the workover rig and wellhead. New Mexico Oil Conservation Division was notified in person and via email and MDL received the incident number NCS 1805448077. Based on the soil sampling results and remediation, MDL is requesting no further action on this release.

Background

MDL characterized the release according to Table 1, *Closure Criteria for Soils Impacted by a Release*, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The nearest fresh water well is located 1,115.7 feet from the Centerpoint wellhead with a depth of 43 feet and a depth to water level of 24 feet. The nearest watercourse is located 0.375 miles North of the Centerpoint impact area. The nearest United States Geological Survey (USGS) groundwater monitoring well is located approximately 15 miles northwest of the Centerpoint impact area and reported a depth to water level in 2014 to be 290 feet (closest measurement prior to the release). The impacted site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet any occupied structure or wetland.



The NMOCD Table 1 closure criteria for soil sampling apply and all concentrations for BTEX and hydrocarbons were found to be below the required concentrations.

Sampling

Sampling occurred after the workover rig had completed its operations. A five spot pattern in the impacted area of approximately 3000 square feet and a background sample was taken with NMOCD representatives present during the entire sampling activity.

Remediation

The impacted area was all within the well pad and contained specifically around the wellhead with a temporary berm that was constructed to contain any potential release during operations. After operations and sampling commenced the impact area was remediated by removing any vegetation and removing any stained gravel and soil that was present.

Conclusion

MDL is requesting that this release be closed because of the soil sampling testing in the concentrations allowed by NMOCD and the remediation activities to bring the well pad back into compliance.

Sincerely,

Maralex Disposal, LLC.

Jordan Reid

Production Technician



Attachments:

Figure 1: Site Map

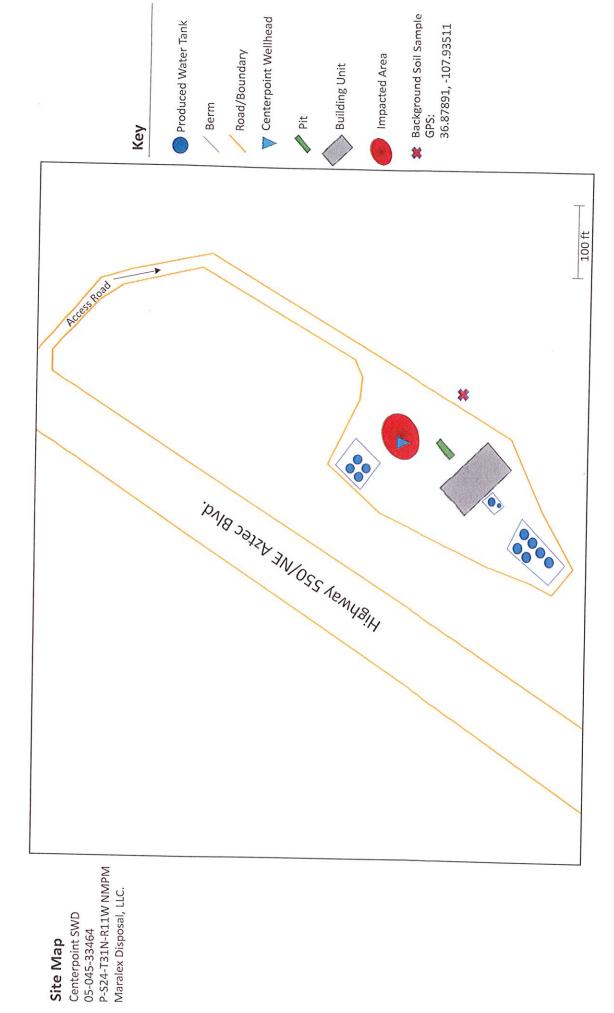
Figure 2: Site Map – Sampling Sites

Figure 3: Centerpoint Water Sources Map

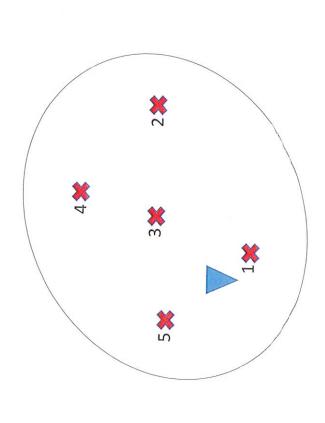
Figure 4: National Wetlands Map

Attachment 1: USGS Groundwater Watch Report Attachment 2: Green Analytica Sampling Report

Site Map



Site Map - Sampling
Centerpoint SWD
05-045-33464
P-S24-T31N-R11W NMPM
Maralex Disposal, LLC.



Centerpoint Wellhead

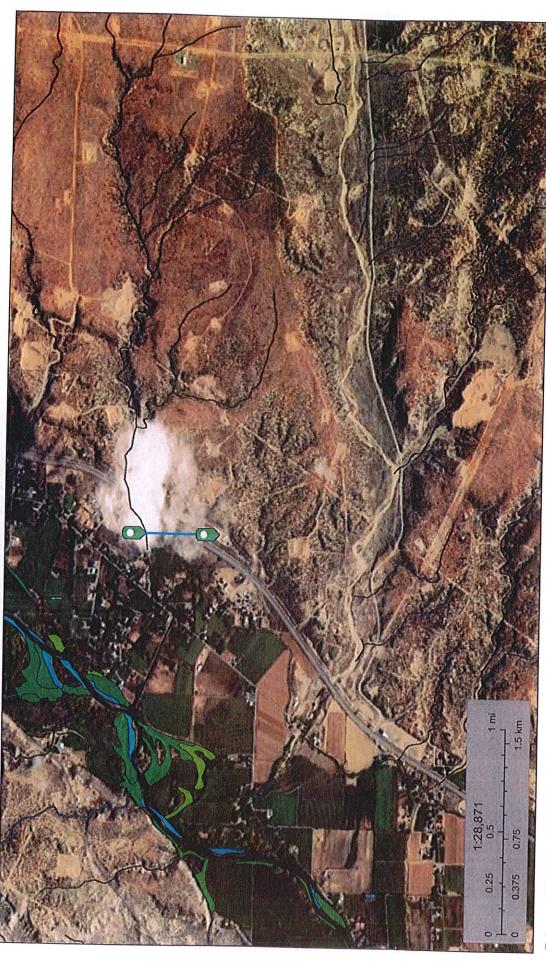
Key

1) 36.87912, -107.93531 2) 36.87918, -107.93529 3) 36.87916, -107.93532 4) 36.87920, -107.93535 5) 36.87917, -107.93538

Soil Sample Location

GPS:

Impacted Area



February 10, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

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.

This map is for general reference only. The US Fish and Wildlife

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

National Flood Hazard Layer FIRMette

107°56'26.06"W



OTHER AREAS OF FLOOD HAZARD OTHER AREAS OTHER FEATURES MAP PANELS T31N R10M AREA OF MINIMAL FLOOD HAZARD ZODEX T31N R11W

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE) SPECIAL FLOOD HAZARD AREAS

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 Regulatory Floodway

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Flood Risk due to Levee Zone D Area with Reduced Flood Risk due to

NO SCREEN Area of Minimal Flood Hazard Zone X

Area of Undetermined Flood Hazard Zone D

Channel, Culvert, or Storm Sewer GENERAL ---- Channel, Culvert, or Storm STRUCTURES | 1111111 Levee, Dike, or Floodwall Cross Sections with 1% Annual Chance Water Surface Elevation

Base Flood Elevation Line (BFE) Coastal Transect Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline Profile Baseline

Hydrographic Feature

Digital Data Available

No Digital Data Available

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.

reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 2/11/2020 at 1:54:32 PM and does not The flood hazard information is derived directly from the

This map image is void if the one or more of the following map legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for

1,500

200

250



Groundwater Watch

USGS Home Contact USGS Search USGS

Latest News...

Site Number: 365719108125101 - 32N12WS28 334 BDMKPC1



DESCRIPTION:

Latitude 36°57'18.50", Longitude 108°12'51.30" NAD83 San Juan County, New Mexico, Hydrologic Unit 14080105

Well depth: 324.4 feet

Land surface altitude: 6,043.26feet above NAVD88. Well completed in "Pictured Cliffs Sandstone" (211PCCF) local aquifer

AVAILABLE DATA:

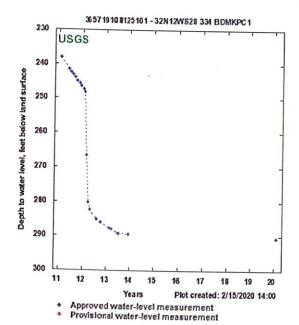
Data Type	Begin Date	End Date	Count
Field groundwater-level	2011-01-	2020-01-	20
measurements	26	29	20

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Groundwater Watch Help Page

Periodic Groundwater Data



Depth to water level, feet below land surface
Approved Periodic Water Level Values

Begin Date

End Date
Number of Value

- 09	, ,	ilu Date	Number of Values
01/26,	14.4	01/29/20	20
Highest WL	Date of Highe WL	est Lowest WL	Date of Lowest WL
238.04	01/26/11	290.5	01/29/20

Groundwater Levels Options

View latest data on NWISWeb

Download groundwater levels in text format

Return to Groundwater Watch | Retu

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URL: https://groundwaterwatch.usgs.gov/AWLSites.asp

Page Contact Information: Contact the GroundWater Watch Support Team Last update: Thursday, September 26, 2019 at 13:24

Page displayed in 0.109 seconds.







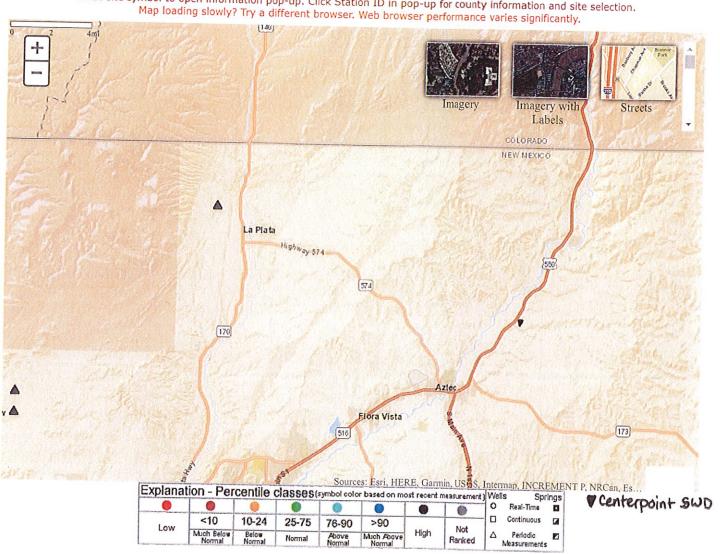
Latest News...

In cooperation with...



New Mexico Active Water Level Network

Click site symbol to open information pop-up. Click Station ID in pop-up for county information and site selection.



Groundwater Watch Help Page

Download Google Earth Version

Map generated 2/13/2020 11:07:48 AM Download New Mexico water-level data

New Mexico Counties depicted on the state location map with active wells and springs

Counties	Total Sites	Real-Time	Continuous	Periodic	Springs
Bernalillo County	164	-	62	102	-
Catron County	41	_	-		-
Chaves County	1	_	-	41	-
Cibola County	4	-	_	1	
Colfax County	1			4	-
	1	-	-	1	-

Curry County	135	_	_	135	
De Baca County	5	_	2	5	-
Dona Ana County	225	11	7	207	-
Eddy County	1	-	1		-
Guadalupe County	4	1	1	-	-
Harding County	1	-	-	3	-
Lea County	2	2	-	1	-
Lincoln County	1	1	-	-	-
McKinley County	28	1	-	-	-
Mora County	2	-	-	28	-
Otero County	1	-	-	2	-
Quay County	14	-	-	-	1
Roosevelt County	15	-	-	14	-
Sandoval County	27		-	15	-
San Juan County		1	7	19	-
San Miguel County	15	-	-	15	-
Santa Fe County	14	2	-	12	-
Sierra County	34	2	22	10	-
Socorro County	28	1	2	25	-
COLORODE MARKET BROKEN AND TO	35	<u>-</u>	-	35	-
Taos County	9	-	1	8	-
Torrance County	2	-	-	2	_
Union County	5	7.0	-	5	_
Valencia County	17	3	2	12	-
Number of active NM wells & springs:	831	24	104	702	1

Return to National Page

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URL: https://groundwaterwatch.usgs.gov/StateMap.asp
Page Contact Information: Contact the GroundWater Watch Support Team

Last update: Tuesday, September 24, 2019 at 09:01

Page displayed in 47,702.160 seconds.



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75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

27 June 2018

Jordan Reid Maralex PO Box 338 Ignacio, CO 81137

RE: BTEX/TPH & CI

Enclosed are the results of analyses for samples received by the laboratory on 06/15/18 15:20. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Deblie Zufett

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



www.GreenAnalytical.com

Maralex

PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID				
	Laboratory ID	Matrix	Date Sampled	Date Received
Site	1806147-01	Solid	06/15/18 14:15	06/15/18 15:20
Background	1806147-02	Solid	06/15/18 14:25	06/15/18 15:20

Green Analytical Laboratories

Deldie Zufett



www.GreenAnalytical.com

Maralex

PO Box 338 Ignacio CO, 81137 Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Site

1806147-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Subcontracted Cardinal I	aboratories								50
Inorganic Compounds									
Chloride	768	16.0		mg/kg	4	06/20/18	4500-CI-B		HM
Volatile Organic Compounds by EPA M	ethod 8021								
Benzene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Toluene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Ethylbenzene*	< 0.050	0.050	0.004	mg/kg	50	06/21/18	8021B		MS
Total Xylenes*	< 0.150	0.150	0.010	mg/kg		06/21/18	8021B		MS MS
Total BTEX	<0.300	0.300	0.018	mg/kg		06/21/18	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)		-	113 %	69.8-142		06/21/18	8021B		MS
Petroleum Hydrocarbons by GC FID									
GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	06/21/18	8015B		Mc
DRO >C10-C28*	624	10.0	1.56	mg/kg		06/21/18	8015B		MS
EXT DRO >C28-C36	386	10.0	1.56	mg/kg		06/21/18	8015B		MS MS
Surrogate: 1-Chlorooctane			83.0 %	41-142		06/21/10			
Surrogate: 1-Chlorooctadecane				37.6-147		06/21/18 06/21/18	8015B 8015B		MS MS

Green Analytical Laboratories

Deldie Zufett



www.GreenAnalytical.com

Maralex PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Background

1806147-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Subcontracted Cardinal I	aboratories								
Inorganic Compounds									
Chloride	<16.0	16.0		mg/kg	4	06/20/18	4500-CI-B		HM
Volatile Organic Compounds by EPA M	ethod 8021								
Benzene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MG
Toluene*	< 0.050	0.050	0.002	mg/kg	50	06/21/18	8021B		MS
Ethylbenzene*	< 0.050	0.050	0.004	mg/kg	50	06/21/18	8021B		MS
Total Xylenes*	< 0.150	0.150	0.010	mg/kg	50	06/21/18	8021B 8021B		MS
Total BTEX	< 0.300	0.300	0.018	mg/kg	50	06/21/18	8021B 8021B		MS MS
Surrogate: 4-Bromofluorobenzene (PID)			113%	69.8-142		06/21/18	8021B		MS
Petroleum Hydrocarbons by GC FID									
GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	06/26/18	9015D		140
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	ì	06/26/18	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	06/26/18	8015B 8015B		MS
Surrogate: I-Chlorooctane Surrogate: I-Chlorooctadecane			85.9%	41-142	•	06/26/18	8015B 8015B 8015B		MS MS MS

Green Analytical Laboratories

Deldie Zufett



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Maralex

PO Box 338 Ignacio CO, 81137 Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Inorganic Compounds - Quality Control

Analyte Batch 8062001 - 1:4 DI Water	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (8062001-BLK1)			Pren	ared & Anal	vzed: 06/2/)/18				
Chloride	ND	16.0	mg/kg	area co i mai	.yzed. 00/20	710				
LCS (8062001-BS1)			Prep	ared & Anal	vzed: 06/20	/18				
Chloride	416	16.0	mg/kg	400	j.200. 00/20	104	80-120			
LCS Dup (8062001-BSD1)			Prepa	ared & Anal	yzed: 06/20	/18				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8062101 - Volatiles					resun	701000	Limits	NI D	Limit	Notes

Blank (8062101-BLK1)	Prepared & Analyzed: 06/21/18								
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100	104	69.8-142	=:====		
Benzene	ND	0.050	mg/kg		104	03.0-142			
Ethylbenzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
LCS (8062101-BS1)			Prep	ared & Analyzed	: 06/21/18				
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100	102	69.8-142			
Benzene	2.21	0.050	mg/kg	2.00	110	74.5-124			
Ethylbenzene	2.18	0.050	mg/kg	2.00	109	78.6-122			
Toluene	2.19	0.050	mg/kg	2.00	110	78.8-122			
Total Xylenes	6.83	0.150	mg/kg	6.00	114	79.7-123			
LCS Dup (8062101-BSD1)			Prep	ared & Analyzed:	06/21/18				
Surrogate: 4-Bromofluorobenzene (PID)	0.0998		mg/kg	0.100	99.8	69.8-142			
Benzene	2.30	0.050	mg/kg	2.00			4.00		
Ethylbenzene	2.28	0.050	mg/kg	2.00	115	74.5-124	4.29	15.2	
Toluene	2.28	0.050	mg/kg	2.00	114	78.6-122	4.52	15.4	
Total Xylenes	7.09	0.150	mg/kg	6.00	114 118	78.8-122 79.7-123	4.11 3.67	15.1 15.2	

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Maralex

PO Box 338 Ignacio CO, 81137 Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8062003 - General Prep - Organics					1100011	741.00	Lillins	- Ni D	Limit	Notes
Blank (8062003-BLK1)			Prep	ared & Anal	vzed: 06/20	/18				
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.2	37.6-147			
Surrogate: 1-Chlorooctane	44.1		mg/kg	50.0		88.2	41-142			
DRO >C10-C28	ND	10.0	mg/kg			00.2	71 172			
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
LCS (8062003-BS1)			Prep	ared & Anal	yzed: 06/20/	18				
Surrogate: 1-Chlorooctadecane	43.3		mg/kg	50.0		86.6	37.6-147			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.5	41-142			
DRO >C10-C28	200	10.0	mg/kg	200		99.8	72.9-138			
GRO C6-C10	189	10.0	mg/kg	200		94.7	76.5-133			
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	78-132			
LCS Dup (8062003-BSD1)			Prepa	ared & Analy	yzed: 06/20/	18				
Surrogate: 1-Chlorooctadecane	43.2		mg/kg	50.0		86.5	37.6-147			
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.3	41-142			
DRO >C10-C28	194	10.0	mg/kg	200		97.1	72.9-138	2.78	20.6	
GRO C6-C10	188	10.0	mg/kg	200		94.0	76.5-133		20.6	
Total TPH C6-C28	382	10.0	mg/kg	400		95.6	78-132	0.775 1.80	20.6 18	

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Maralex

PO Box 338

Ignacio CO, 81137

Project: BTEX/TPH & Cl

Project Name / Number: [none]

Project Manager: Jordan Reid

Reported:

06/27/18 16:29

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

*Results reported on as received basis unless designated as dry.

RPD

Relative Percent Difference

LCS

Laboratory Control Sample (Blank Spike)

RL

Report Limit

MDL

Method Detection Limit

Green Analytical Laboratories

Deldie Zufett

COC - Revision 5.0

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006

75 Suttle St Durango, CO 81303

(970) 247-4220 Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com

ANALYSIS REQUEST perclunt X318 100 08 TOH DIG GILD MICE 08 Other: Other # of containers "OS"H Bill to (if different): нсі HNO No preservation (general) **SHIO** DRINKING WATER Zip: Matrix (check one) TIOS X × PRODUCEDWATER Company: Address: Phone #: **MASTEWATER** P.O. #: Email: State: Attn: SURFACEWATER City RANDINDARTER 3:15 6/15/19 235 Time Collected Zip: 81137 2//5/12 Date 970-799-3572 Email Report to: Macalextech@grail.com State: 00 Sample Name or Location Company or Client: Maralex Disposa Contact Person: Jordan Reid Buckground City: Ignacio Phone #: (970) 563-4008 5:10 Address: PO BOX 338 Project Name(optional): Sampler Name (Print): 20-1806-147-01 For Lab Use

n contract or fort, shall be finners as the amount past by the clear for the analyses. As clears including those for regispence and any other cause whilebowers shall be deemed warved unless make in writing and several damages, including without limitation, business interruptions, loss of use or loss of poritis incurred by client. As substainers, affiliates or subseases arrang out of or related to the performance of services interruptions. PLEASE NOTE: GAL's hability and ch By GAL, regardless of wnether such of Relinquished By:

Report to State? (Circle) Yes 19.4 c CHECKED BY 18/265 की कार्य ADDITIONAL REMARKS Xarragio 20255 85 on 18 Time: Date: Profess 5 Langaron iquished Bv: Relinquished By:

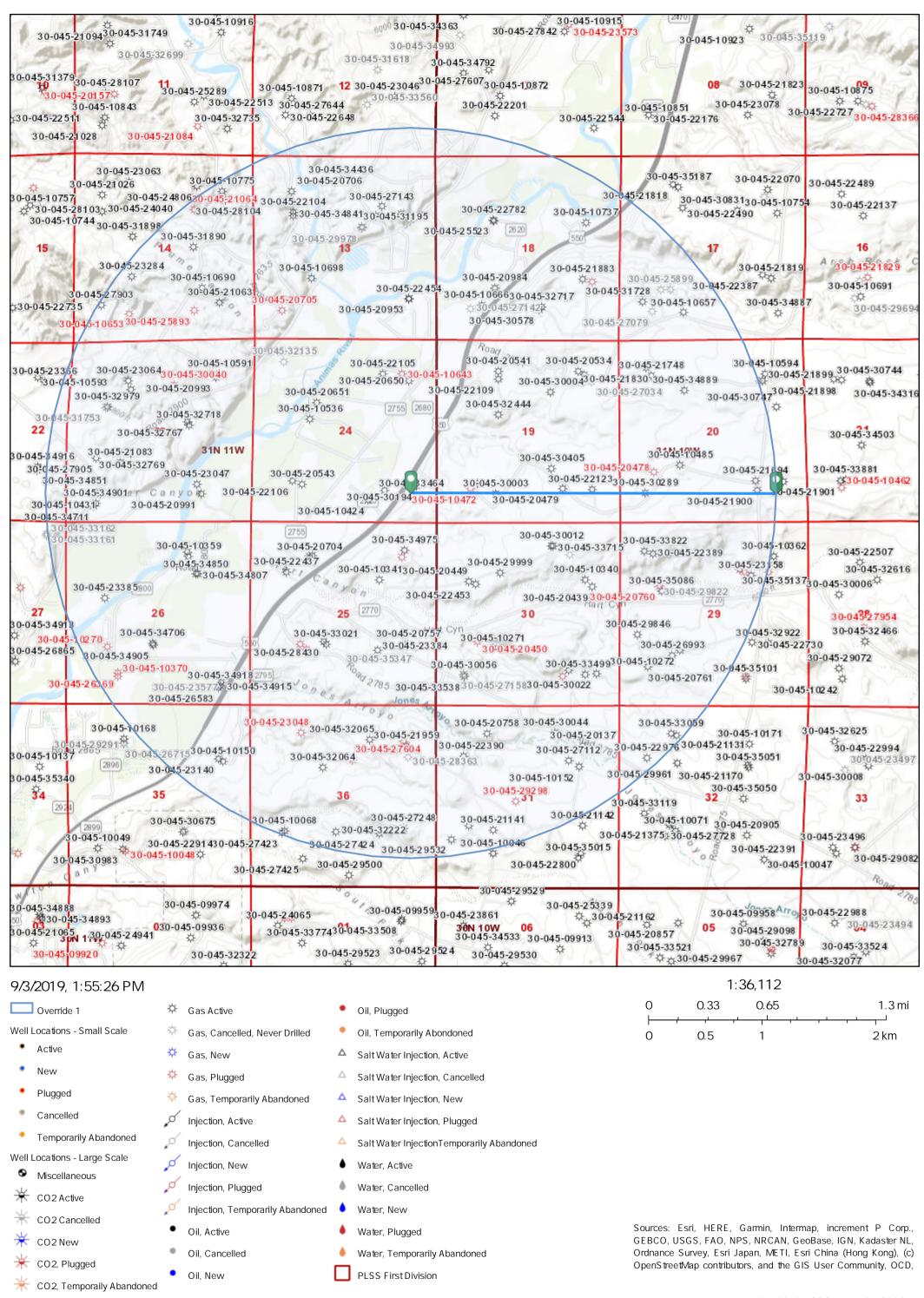
† GAL cannot always accept verbal changes. Please fax or email written change requests.

Chain of Custody must be signed in "Reliquished By:" as an acceptance of services and all applicable charges.

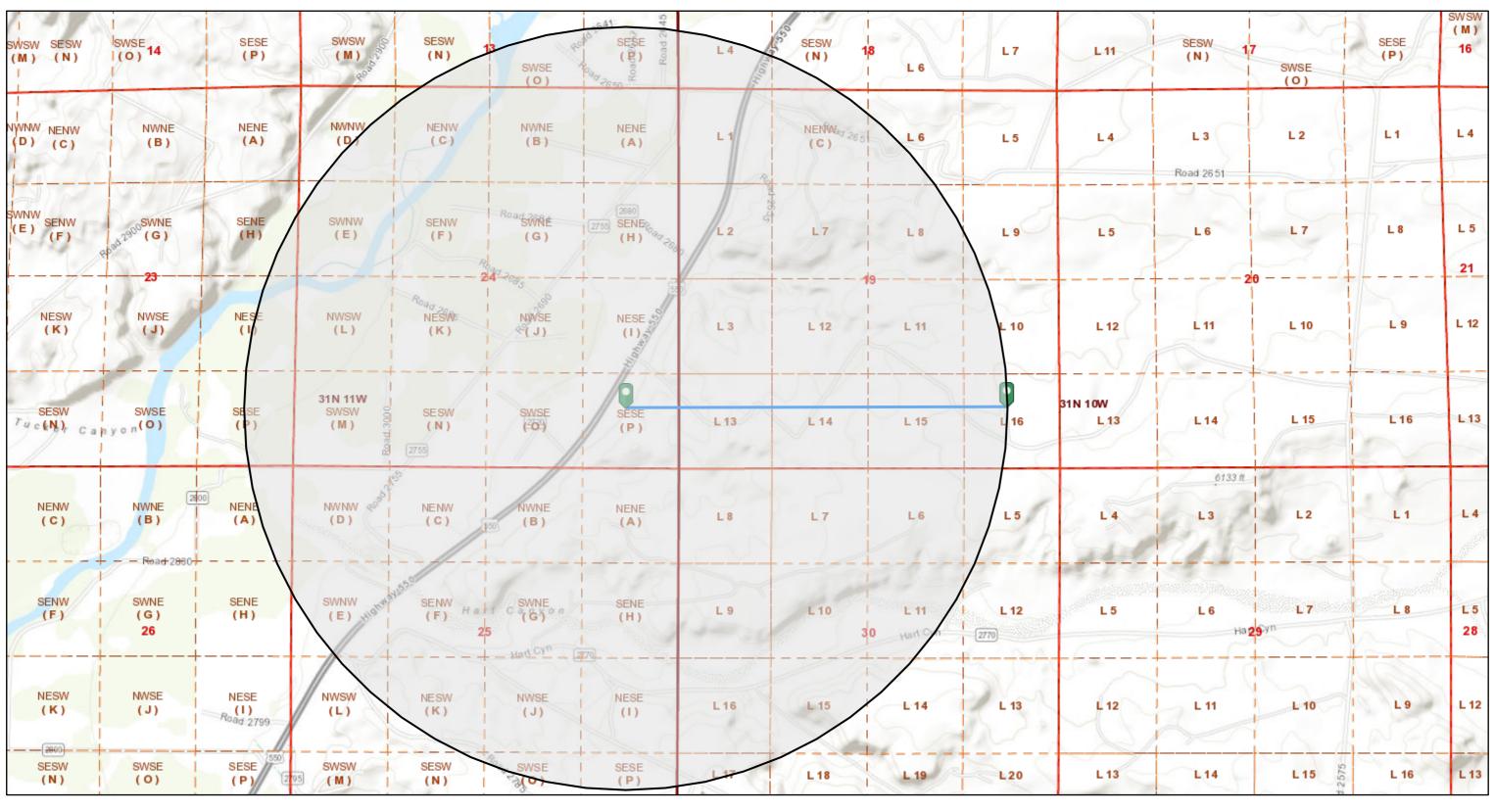
Just Click Printing Form #17-0301

Centerpoint Wellbore History					
Date	Activity				
4/30/2006	- Spud				
11/28/2006	- Mechanical Integrity Test (passed)				
11/30/2006	- Injection approval granted				
12/1/2006	- Begin injection				
5/9/2009	- Pressure tests - wellhead, tubing, on/off tool, and packer (passed)				
8/13/2009	- Bradenhead test (passed)				
2/19/2014	- Perforations - 8028' - 8050' with 4 JSPF and 90° phasing				
11/25/2014	- Mechanical Integrity Test (passed)				
11/30/2017	- Pressure tests - NMOCD witnessed and greenlight to continue injection				
12/1/2017	- Well workover - bailing				
12/6/2017	- Well workover - fishing packer and tubing				
1/10/2018	- Well workover - milling out tight spot				
1/26/2018	- Well workover - pulled fish				
2/7/2018	- Well workover - packer set				
2/13/2018	- Well workover - finding hole, found				
2/14/2018	- Filed cement program to NMOCD, approved				
2/16/2018	- Executed cementing program				
2/26/2018 -	Bradenhead test (passed)				
8/13/2018	- Mechanical Integrity Test (passed)				

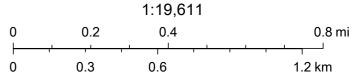
OCD Well Locations



Water Wells - 1 Mile Radius







Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,