

Incident ID	nRM2019638426
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?	600 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

Incident ID	nRM2019638426
District RP	
Facility ID	
Application ID	

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: Andrew Parker Title: Env. Scientist

Signature:  Date: 11/30/2020

email: AParker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: Cristina Eads Date: 12/10/2020

Incident ID	nRM2019638426
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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: Andrew Parker Title: Env. Scientist
 Signature:  Date: 11/30/2020
 email: AParker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: Cristina Eads Date: 12/10/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 02/19/2021

nRM2019638426
REMEDIATION DEFERRAL REQUEST
Dagger State Com #504H
Produced Water Release
Lea County, New Mexico

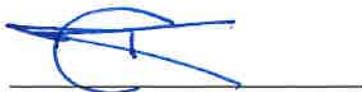
Latitude: 32.4487925° North
Longitude: -103.6063424° West

LAI Project No. 20-0100-05

October 20, 2020

Prepared for:
Select Energy Services, LLC
5721 NW 132nd Street
Oklahoma City, OK 73142

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701



Mark J. Larson, P.G.
Certified Professional Geoscientist #10490



Robert Nelson
Sr. Geoscientist

This Page Intentionally Left Blank

Table of Contents

1.0 INTRODUCTION 4

 1.1 Background 4

 1.2 Physical Setting 4

 1.3 Remediation Action Levels..... 5

2.0 Delineation..... 5

3.0 REMEDIATION DEFERRAL REQUEST..... 6

Tables

Table 1 Delineation Soil Sample Analytical Data Summary

Figures

Figure 1 Topographic Map

Figure 2 Aerial Map Showing Sample Locations

Figure 3 Aerial Map Showing Proposed Excavation Areas

Appendices

Appendix A Initial C-141

Appendix B OSE Well Log

Appendix C Karst Potential Map

Appendix D Laboratory Reports

Appendix E Photographs

nRM2019638426
Remediation Deferral Request
Dagger State Com #504H
Produced Water Spill
October 20, 2020

1.0 INTRODUCTION

Larson & Associates, Inc., (LAI), on behalf of Select Energy Services, LLC (Select), submits this remediation deferral request to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water spill at the Dagger State Com #504H (Site) located in Unit I (NE/4, SE/4), Section 30, Township 21 South, Range 33 East in Lea County, New Mexico. The surface and mineral owner is the State of New Mexico administered by the New Mexico State Land Office (SLO). The geodetic position is North 32.4487925° and West -103.6063424°. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on June 23, 2020. The spill occurred due to human error resulting in approximately 100 barrels (bbls) of produced water to be released onto the lined containment and nearby earthen embankment that ultimately washed out into a lined pit. Approximately 90 bbls were recovered. Inspection of the liner revealed no major defects. The affected area on the liner measures approximately 17,661 square feet and approximately 2,309 square feet on the earthen embankment. The initial C-141 was submitted to OCD District 1 and was assigned incident number nRM2019638426. Appendix A presents the initial C-141.

1.2 Physical Setting

The Physical Setting is as follows:

- The surface elevation is approximately 3,848 feet above mean sea level (msl).
- The topography slopes to the southeast.
- There are no surface water features within 1,000 feet of the site.
- Karst data provided by the USGS describes the Site as “Low Risk” potential.
- The soils are designated as “Kermit soils and Dune land, 0 to 12 percent slopes”, consisting of 0 to 60 inches of fine sand.
- The surface geology is designated quaternary age eolian sand, deposited in dunes, dune ridges, and sheets undivided (USGS).
- Groundwater occurs in the Ogallala formation at approximately 600 feet bgs (1996);
- According to the New Mexico Office of the State Engineer (OSE) the nearest freshwater well is located in Section 33, Township 21 South, Range 33 East approximately 1.86 miles or 9,800 feet southeast of the site.

Appendix B presents the OSE Well Log. Appendix C presents the USGS Karst data and site location

nRM2019638426
 Remediation Deferral Request
 Dagger State Com #504H
 Produced Water Spill
 September 10, 2020

1.3 Remediation Action Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 20,00 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On June 25, 2020 and August 28, 2020, LAI personnel used a stainless-steel hand auger to collect soil samples from eight (8) locations within the spill area and in each cardinal direction of the spill (S-1 through S-8). The samples were collected between approximately 0.5 and 1 foot below ground surface (bgs) and were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28), and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Table 1 presents the laboratory analytical data summary. Figure 2 presents a focused aerial map showing the spill boundaries and sample locations.

On August 28, 2020, LAI personnel utilized a Geoprobe® 7822DT direct push rig to further delineate the spill. Soil samples were collected at four (4) locations (S-9 through S-12), and were analyzed by PBEL.

Benzene and BTEX were below the OCD remediation levels (19.15.29 NMAC Table 1) of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively. TPH was below the OCD remediation limit (2,500 mg/Kg) but exceeded the OCD surface restoration level (19.15.29.13 NMAC) of 100 mg/Kg in the upper four (4) feet in the following samples:

Sample	Depth (Feet)	TPH (mg/Kg)
S-1	1	152
S-2	1	178
S-3	0.5	142
S-4	1	109

nRM2019638426
 Remediation Deferral Request
 Dagger State Com #504H
 Produced Water Spill
 September 10, 2020

Chloride was below the OCD remediation limit (20,000 mg/Kg) but exceeded the OCD surface restoration (19.15.29.13 NMAC) limit of 600 mg/Kg in the upper four (4) feet in the following samples:

Sample	Depth (Feet)	Chloride (mg/Kg)
S-1	0.5	9,720
	1	7,970
	3	702
S-2	0.5	13,400
	1	7,250
S-3	0.5	7,500
	1	7,720
S-4	0.5	7,960
	1	1,630

Appendix D presents the laboratory reports.

3.0 REMEDIATION DEFERRAL REQUEST

Select requests approval to defer remediation until removal of high pressure lay flat lines that supply water for flowback operations and the decommission and closure of the produced water recycling containment. The presence of this equipment prohibits excavation without risking damage to equipment, jeopardizing the structural integrity of the containment berm, and causing further environmental impacts. Appendix E presents photographic documentation.

Select proposes the following remedial actions upon removal of the lay flat line and decommission and closure of the recycling containment:

- Excavate soil from an area measuring approximately 1,645 square feet, encompassing S-1, S-2, and S-9 to approximately 3 feet bgs;
- Excavate soil from an area measuring approximately 590 square feet, encompassing S-4 and S-12 to approximately 1.5 feet bgs;
- Excavate soil from an area measuring approximately 861 square feet, encompassing S-3 to approximately 1-foot bgs;
- Collect five (5) point composite bottom and sidewall confirmation soil samples not to exceed an area of 200 square feet within the excavation and analyze for BTEX, TPH, and chloride;
- Backfill excavations with clean material assuming achievement of OCD remediation levels; and
- Prepare reports with photographs for submittal to OCD District I.

Figure 3 presents the proposed excavation areas.

Tables

Table 1
Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake Pit
Lea County, New Mexico
North 32° 26' 55.15", West 103° 36' 22.52"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Cl- (mg/Kg)
Remediation Level:				10	50				100/2,500	600/20,000
S-1	0.5	6/25/2020	In-Situ	<0.00110	<0.00100	<27.5	38.9	<27.5	38.9	9,720
	1	6/25/2020	In-Situ	<0.00109	<0.00109	<27.2	<27.2	<27.2	<27.2	9,530
	1	8/28/2020	In-Situ	<0.00108	<0.00108	<26.9	43.8	108	152	7,970
	3	8/28/2020	In-Situ	<0.00108	<0.00108	<26.9	50.6	<26.9	50.6	702
	5	8/28/2020	In-Situ	--	--	--	--	--	--	50.1
S-2	0.5	6/25/2020	In-Situ	<0.00112	<0.00112	<28.1	<28.1	<28.1	<28.1	13,400
	1	6/25/2020	In-Situ	<0.00109	<0.00109	45.1	60.8	71.7	178	8,020
	1	8/28/2020	In-Situ	<0.00108	<0.00108	<26.9	<26.9	91.5	91.5	7,250
	3	8/28/2020	In-Situ	<0.00111	<0.00111	<27.8	31.6	50.9	82.6	364
S-3	0.5	6/25/2020	In-Situ	<0.00109	<0.00109	50.8	34.8	56.7	142	7,500
	1	6/25/2020	In-Situ	<0.00109	<0.00109	<27.2	<27.2	<27.2	<27.2	7,720
	1	8/28/2020	In-Situ	<0.00105	<0.00105	<26.3	<26.3	<26.3	<26.3	577
S-4	0.5	6/25/2020	In-Situ	<0.00108	<0.00108	<26.9	<26.9	<26.9	<26.9	7,960
	1	6/25/2020	In-Situ	<0.00108	<0.00108	<26.9	<26.9	<26.9	<26.9	9,160
	1	8/28/2020	In-Situ	<0.00103	<0.00103	<25.8	78.2	31.3	109	1,630
	3	8/28/2020	In-Situ	<0.00104	<0.00104	<26.0	<26.0	<26.0	<26.0	9.48
S-5	0.5	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	63.5
	1	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	10.5
S-6	0.5	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	47.7
	1	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	46.7

Table 1
Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake Pit
Lea County, New Mexico
North 32° 26' 55.15", West 103° 36' 22.52"

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Cl- (mg/Kg)
Remediation Level:				10	50				100/2,500	600/20,000
S-7	0.5	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	17.7
	1	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	15.5
S-8	0.5	6/25/2020	In-Situ	<0.00102	<0.00102	<25.5	<25.5	<25.5	<25.5	63.9
	1	6/25/2020	In-Situ	<0.00100	<0.00100	<25.0	<25.0	<25.0	<25.0	29.5
S-9	1	8/28/2020	In-Situ	<0.00109	<0.00109	<27.2	<27.2	<27.2	<27.2	75.8
S-10	1	8/28/2020	In-Situ	<0.00103	<0.00103	<25.8	<25.8	<25.8	<25.8	28.7
S-11	1	8/28/2020	In-Situ	<0.00102	<0.00102	<25.5	<25.5	<25.5	<25.5	456
S-12	1	8/28/2020	In-Situ	<0.00102	<0.00102	<25.5	<25.5	<25.5	<25.5	36.7

Notes: Laboratory analysis performed by Permian Basin Environmental Lab (PBEL), Midland, Texas by EPA Method 8021B (BTEX), 8015M (TPH), and 300 (chloride).

Depth in feet below ground surface (bgs)

mg/Kg: milligram per kilogram equivalent to parts per million (ppm)

Bold and highlighted exceeds OCD remediation action limits

Figures

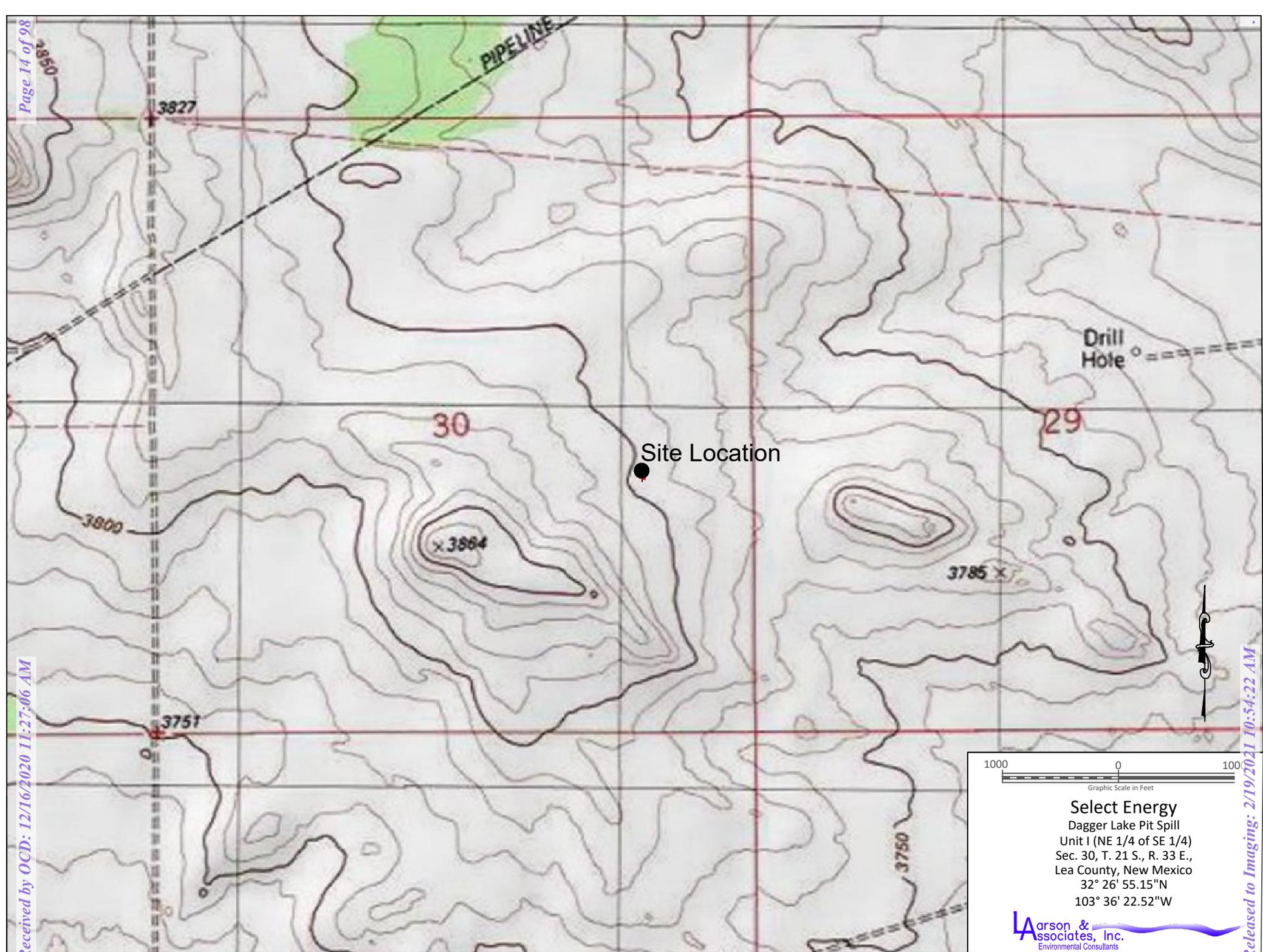
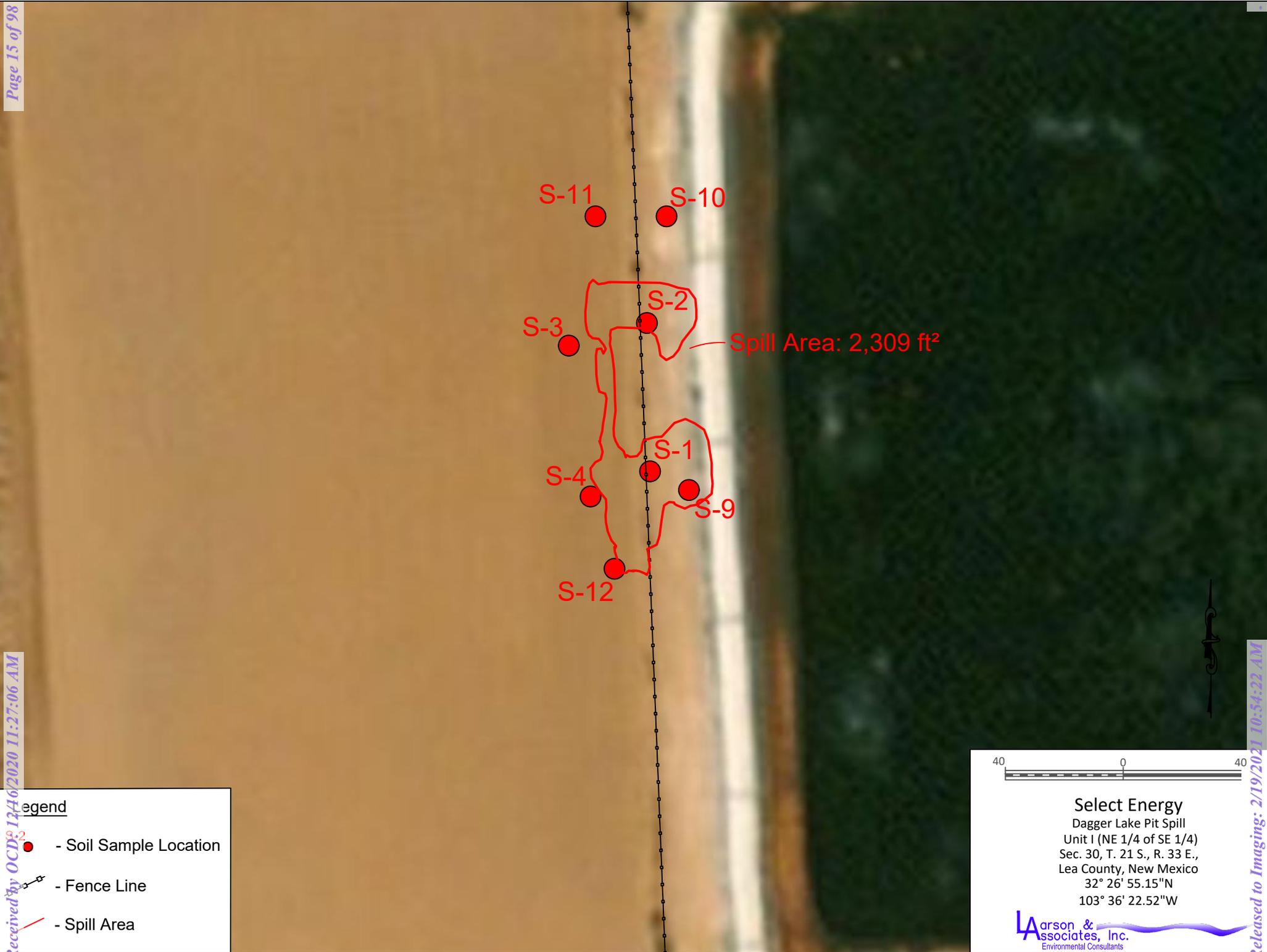


Figure 1 - Topographic Map



S-11 S-10

S-3 S-2

Spill Area: 2,309 ft²

S-4 S-1 S-9

S-12

Legend

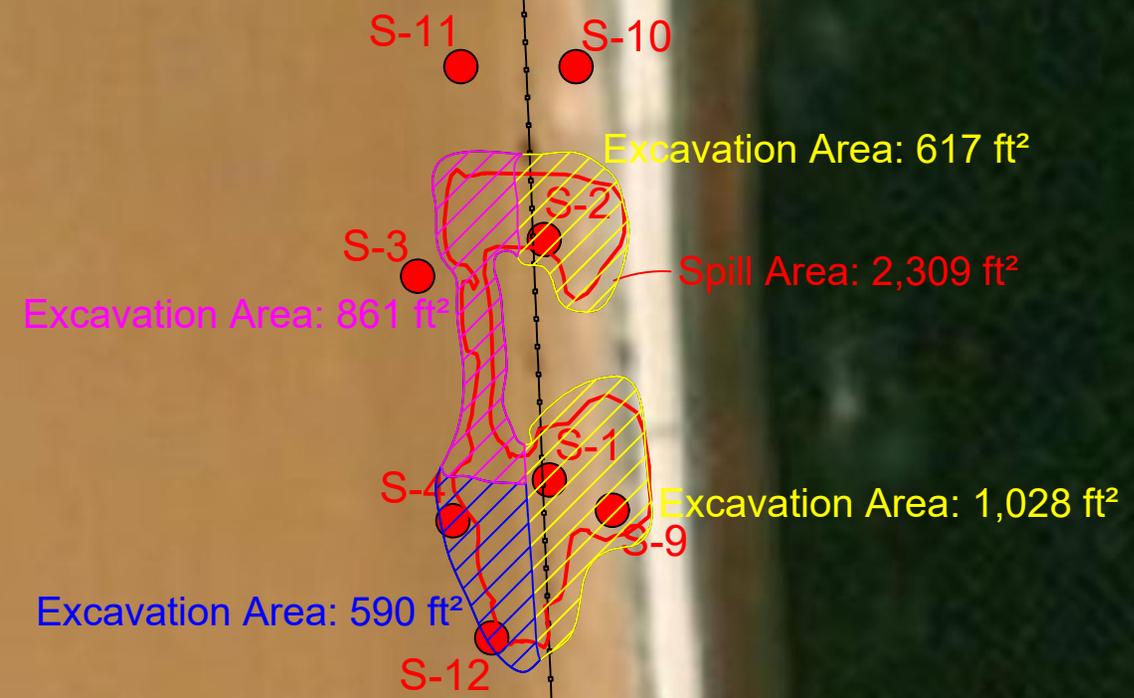
- - Soil Sample Location
- Fence Line
- ▭ - Spill Area

40 0 40

Select Energy
 Dagger Lake Pit Spill
 Unit I (NE 1/4 of SE 1/4)
 Sec. 30, T. 21 S., R. 33 E.,
 Lea County, New Mexico
 32° 26' 55.15"N
 103° 36' 22.52"W

Larson &
 Associates, Inc.
 Environmental Consultants

Figure 2a - Zoomed in Aerial Map



Legend

- - Soil Sample Location
- Fence Line
- Spill Area
- Proposed Excavation: 1'
- Proposed Excavation: 1.5'
- Proposed Excavation: 3'

40 0 40

Select Energy
 Dagger Lake Pit Spill
 Unit I (NE 1/4 of SE 1/4)
 Sec. 30, T. 21 S., R. 33 E.,
 Lea County, New Mexico
 32° 26' 55.15"N
 103° 36' 22.52"W

Larson &
 Associates, Inc.
Environmental Consultants

Figure 2a - Focused Aerial Map

Appendix A

Initial C-141

Incident ID	NRM2019638426
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Advance Energy Partners Hat Mesa LLC	OGRID: 372417
Contact Name: David Harwell	Contact Telephone: 281-235-3431
Contact email: DHarwell@advanceenergypartners.com	Incident # (assigned by OCD)
Contact mailing address: 11490 Westheimer Rd. Suite 950. Houston, TX 77077	

Location of Release Source

Latitude 32.4487925

Longitude -103.6063424

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Dagger Recycling Containment and Recycling Facility	Site Type: Layflat Flow Line
Date Release Discovered: 06/23/2020 @ 17:00 hrs	API# Adjacent to 30-025-43302 (Dagger State Com 504H)

Unit Letter	Section	Township	Range	County
I	30	21S	33E	Lea

Surface Owner: State Federal Tribal Private

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls) :	Volume Recovered (bbls):
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 (net of 10)	Volume Recovered (bbls): 90 (vacuum truck)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure to shut valve on layflat flowline. Produced water was being transferred from the Dagger Recycling Containment to Goodnight Midstream's saltwater gathering system. Ninety barrels (90 bbls) of the release was contained on a synthetic liner associated with adjacent ASTs.

Volume calculations are from the meter on the vac truck and release area outside the footprint of the synthetic liner. Volume calculations attached for area outside of the liner footprint.

State of New Mexico
 Oil Conservation Division

Incident ID	NRM2019638426
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? 100 barrels of produced water was released. 90 barrels released onto synthetic liner recovered by vacuum truck. Net release 10 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was not given. Further evaluation of data collected subsequent to the initial release indicated that a major release occurred.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Andrew Parker</u> (R.T. Hicks Consultants) Title: <u>Sr. Env. Specialist</u> Signature: <u></u> Date: <u>July 7, 2020</u> email: <u>andrew@rthicksconsult.com</u> Telephone: <u>970-570-9535</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>7/14/2020</u>

NRM2019638426

Spill Dimensions to Volume of Release Area outside footprint of Liner			
Input	volume of affected soil	[feet^3]	1065.00
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.15
Output			
	volume of fluid	[feet^3]	55.9
		[gal]	418.3
		Barrels	10.0

Appendix B
OSE Well Log



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
	CP 00854 POD1	1 1 2	33	21S	33E	633879	3590223

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY" (LD)		
Drill Start Date: 06/22/1996	Drill Finish Date: 06/22/1996	Plug Date:
Log File Date: 07/11/1996	PCW Rcv Date: 10/17/2013	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 2.875	Estimated Yield: 100 GPM
Casing Size: 6.63	Depth Well: 950 feet	Depth Water: 600 feet

Water Bearing Stratifications:	Top	Bottom	Description
	755	805	Sandstone/Gravel/Conglomerate
	860	890	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	760	950

Meter Number: 8514	Meter Make: BLANCETT
Meter Serial Number: 040 711 711	Meter Multiplier: 100.0000
Number of Dials: 8	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
03/15/2004	2004	121	A	jw			0
03/29/2004	2004	69871	A	jw			0
05/17/2004	2004	8758	A	jw		2.651	
06/11/2004	2004	79641	A	jw		2.998	
01/27/2012	2012	18062553	A	RPT	Initial reading		0
03/01/2012	2012	19039807	A	RPT		2.999	
05/29/2013	2013	179696	A	RPT	initial reading		0
10/07/2013	2013	460774	A	RPT	Qtr IV 2013	36.229	
11/11/2013	2013	540326	A	RPT		10.254	
01/01/2014	2013	614283	A	RPT		9.533	
10/01/2014	2014	1122654	A	RPT		65.526	
01/01/2015	2014	1212343	A	RPT		11.560	
03/31/2015	2015	1307063	A	RPT		12.209	
06/27/2015	2015	1369556	A	RPT		8.055	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
09/30/2015	2015	1371471	A	RPT	0.247
10/22/2015	2015	1400502	A	RPT	3.742
11/30/2015	2015	1400502	A	RPT	0
04/28/2016	2016	1464116	A	RPT "JD33 Well"	8.199
06/01/2016	2016	1464116	A	RPT	0
07/27/2016	2016	1496980	A	RPT JD33 Well	4.236
09/01/2016	2016	1510835	A	RPT JD 33 Well	1.786
09/30/2016	2016	1517146	A	RPT	0.813
10/31/2016	2016	1531178	A	RPT JD 33 well	1.809
11/29/2016	2016	1553285	A	RPT JD33 Well	2.849
12/31/2016	2016	1572799	A	ap	251.522
02/01/2017	2017	1583100	A	ap	132.773
03/01/2017	2017	1583100	A	ap	0
04/01/2017	2017	1586113	A	ap	38.836
05/01/2017	2017	1586113	A	ap	0
05/31/2017	2017	1586113	A	ap	0
07/31/2017	2017	1605663	A	ap	251.986
10/31/2017	2017	1663578	A	ap	746.485
11/30/2017	2017	1699246	A	ap	459.737
12/30/2017	2017	1730759	A	ap	406.181
01/30/2018	2018	1749008	A	ap	235.217
02/28/2018	2018	1776933	A	ap	359.934
03/30/2018	2018	1776933	A	ap	0
04/30/2018	2018	1795210	A	ap	235.578
06/29/2018	2018	1865977	A	ap	912.139
07/31/2018	2018	1894970	A	ap	373.700
08/30/2018	2018	1920958	A	ap	334.968
09/30/2018	2018	1937637	A	ap	214.981
11/30/2018	2018	1968052	A	ap	392.029
03/01/2019	2019	2022087	A	ap	696.475
04/01/2019	2019	2036608	A	ap	187.166
05/01/2019	2019	2052550	A	ap	205.482
05/31/2019	2019	2068637	A	ap	207.351
06/30/2019	2019	2078429	A	ap	126.212
10/31/2019	2019	2176343	A	ap	1262.046
06/01/2020	2020	3449	A	RPT CHANGE/REPLACED BATTERY	0

**YTD Meter Amounts:	Year	Amount
	2004	5.649
	2012	2.999
	2013	56.016
	2014	77.086

**YTD Meter Amounts:	Year	Amount
	2015	24.253
	2016	271.214
	2017	2035.998
	2018	3058.546
	2019	2684.732
	2020	0

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.

Appendix C
Karst Potential Map



Browser

- ★ Favorites
- ▶ Spatial Bookmarks
- ▶ Project Home
- ▶ Home
- ▶ C:\
- ▶ D:\
- ▶ L:\
- ▶ Z:\
- ▶ GeoPackage
- ▶ Spatialite
- ▶ PostGIS
- ▶ MSSQL
- ▶ Oracle
- ▶ DB2
- ▶ WMS/WMTS
- ▶ XYZ Tiles
- ▶ WCS
- ▶ WFS / OGC API - Features
- ▶ OWS
- ▶ ArcGisMapServer
- ▶ ArcGisFeatureServer
- ▶ GeoNode

Layers

- ✓ Added geom info
- ✓ carlsbad_west
- ▼ Karst_or_No_Karst
 - ✓ High
 - ✓ Low
 - ✓ Medium
- ▼ Bing Satellite



Layer Styling

Bing Satellite

Singleband color data

This renderer doesn't implement a graphical interface.

Layer Rendering

Live update Apply

Layer Styling Processing Toolbox

Identify Results

Feature	Value
▼ Karst_or_No_Karst	
▼ Potential	Low
▶ (Derived)	
▶ (Actions)	
OBJECTID	20
Area	0
Perimeter	0
Acres	3468786.32825999986
Hectares	1403768.02303999988
Potential	Low
LINK	NULL
GlobalID	{7425CFA0-E688-45D3-A5D6-830984BBDF05}
Shape_STAR	14037680230.39999961853
Shape_STLe	898512.38263899996

Mode: Current layer

View: Tree

Help

Appendix D
Laboratory Reports

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Location: NM
Lab Order Number: 0F26003



NELAP/TCEQ # T104704516-17-8

Report Date: 07/05/20

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 0.5'	0F26003-01	Soil	06/25/20 10:30	06-26-2020 09:20
S-1 @ 1'	0F26003-02	Soil	06/25/20 10:35	06-26-2020 09:20
S-2 @ 0.5'	0F26003-03	Soil	06/25/20 10:37	06-26-2020 09:20
S-2 @ 1'	0F26003-04	Soil	06/25/20 10:40	06-26-2020 09:20
S-3 @ 0.5'	0F26003-05	Soil	06/25/20 10:45	06-26-2020 09:20
S-3 @ 1'	0F26003-06	Soil	06/25/20 10:47	06-26-2020 09:20
S-4 @ 0.5'	0F26003-07	Soil	06/25/20 11:05	06-26-2020 09:20
S-4 @ 1'	0F26003-08	Soil	06/25/20 11:10	06-26-2020 09:20
S-5 @ 0.5'	0F26003-09	Soil	06/25/20 11:15	06-26-2020 09:20
S-5 @ 1'	0F26003-10	Soil	06/25/20 11:20	06-26-2020 09:20
S-6 @ 0.5'	0F26003-11	Soil	06/25/20 11:25	06-26-2020 09:20
S-6 @ 1'	0F26003-12	Soil	06/25/20 11:30	06-26-2020 09:20
S-7 @ 0.5'	0F26003-13	Soil	06/25/20 11:35	06-26-2020 09:20
S-7 @ 1'	0F26003-14	Soil	06/25/20 11:40	06-26-2020 09:20
S-8 @ 0.5'	0F26003-15	Soil	06/25/20 11:50	06-26-2020 09:20
S-8 @ 1'	0F26003-16	Soil	06/25/20 11:50	06-26-2020 09:20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 0.5'
0F26003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.4 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9720	11.0	mg/kg dry	10	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C12-C28	38.9	27.5	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.9 %		70-130	P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %		70-130	P0F2606	06/26/20	06/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	38.9	27.5	mg/kg dry	1	[CALC]	06/26/20	06/26/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 1'
0F26003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9530	10.9	mg/kg dry	10	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0F2606	06/26/20	06/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/26/20	06/26/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 0.5'
0F26003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.2 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.3 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13400	28.1	mg/kg dry	25	P0F2608	06/26/20	06/26/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.3 %		70-130	P0F2606	06/26/20	06/26/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %		70-130	P0F2606	06/26/20	06/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/26/20	06/26/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 1'
0F26003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.0 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8020	10.9	mg/kg dry	10	P0F2608	06/26/20	06/27/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.1	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
>C12-C28	60.8	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
>C28-C35	71.7	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P0F2606	06/26/20	06/29/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P0F2606	06/26/20	06/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	178	27.2	mg/kg dry	1	[CALC]	06/26/20	06/29/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 6 of 33

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 @ 0.5'

0F26003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.2 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7500	10.9	mg/kg dry	10	P0F2608	06/26/20	06/27/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	50.8	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
>C12-C28	34.8	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
>C28-C35	56.7	27.2	mg/kg dry	1	P0F2606	06/26/20	06/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0F2606	06/26/20	06/29/20	TPH 8015M	
Surrogate: o-Terphenyl		98.1 %	70-130		P0F2606	06/26/20	06/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	142	27.2	mg/kg dry	1	[CALC]	06/26/20	06/29/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 @ 1'
0F26003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	07/01/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	07/01/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	07/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0F2905	06/29/20	07/01/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0F2905	06/29/20	07/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P0F2905	06/29/20	07/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.8 %	75-125		P0F2905	06/29/20	07/01/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7720	10.9	mg/kg dry	10	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 8 of 33

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 0.5'
0F26003-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.4 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7960	10.8	mg/kg dry	10	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 1'
0F26003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.0 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %		75-125	P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9160	10.8	mg/kg dry	10	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 @ 0.5'

0F26003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0F2905	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	63.5	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 @ 1'
0F26003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.1 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.5	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.0 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 @ 0.5'
0F26003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.7	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 @ 1'

0F26003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.3 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.0 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	46.7	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.6 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 @ 0.5'

0F26003-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.1 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.7	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.0 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 @ 1'

0F26003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.5	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 @ 0.5'
0F26003-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.1 %	75-125		P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	63.9	1.02	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.0 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 @ 1'
0F26003-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %		75-125	P0F2907	06/29/20	06/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.1 %		75-125	P0F2907	06/29/20	06/30/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	29.5	1.00	mg/kg dry	1	P0F2901	06/29/20	06/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0F2701	06/27/20	06/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.6 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %		70-130	P0F2606	06/26/20	06/27/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	06/26/20	06/27/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0F2905 - General Preparation (GC)**Blank (P0F2905-BLK1)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.6	75-125			

LCS (P0F2905-BS1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	70-130			
Toluene	0.0950	0.00100	"	0.100		95.0	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.197	0.00200	"	0.200		98.7	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	75-125			

LCS Dup (P0F2905-BSD1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	4.53	20	
Toluene	0.102	0.00100	"	0.100		102	70-130	7.31	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	0.543	20	
Xylene (p/m)	0.207	0.00200	"	0.200		104	70-130	4.85	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	5.50	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.4	75-125			

Calibration Blank (P0F2905-CCB1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.420		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.530		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P0F2905 - General Preparation (GC)**Calibration Blank (P0F2905-CCB2)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.770		"							
Ethylbenzene	0.620		"							
Xylene (p/m)	1.12		"							
Xylene (o)	0.470		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	75-125			

Calibration Blank (P0F2905-CCB3)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.00		mg/kg wet							
Toluene	0.410		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	1.03		"							
Xylene (o)	0.390		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			

Calibration Check (P0F2905-CCV1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.210	0.00200	"	0.200		105	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		87.0	75-125			

Calibration Check (P0F2905-CCV2)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.5	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0F2905 - General Preparation (GC)**Calibration Check (P0F2905-CCV3)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0970	0.00100	"	0.100		97.0	80-120			
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			

Matrix Spike (P0F2905-MS1)

Source: 0F26003-01

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0778	0.00110	mg/kg dry	0.110	ND	70.8	80-120			QM-07
Toluene	0.0679	0.00110	"	0.110	ND	61.8	80-120			QM-07
Ethylbenzene	0.0606	0.00110	"	0.110	ND	55.2	80-120			QM-07
Xylene (p/m)	0.158	0.00220	"	0.220	ND	71.9	80-120			QM-07
Xylene (o)	0.0859	0.00110	"	0.110	ND	78.2	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.127		"	0.132		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			

Matrix Spike Dup (P0F2905-MSD1)

Source: 0F26003-01

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.0898	0.00110	mg/kg dry	0.110	ND	81.7	80-120	14.2	20	
Toluene	0.0809	0.00110	"	0.110	ND	73.6	80-120	17.4	20	QM-07
Ethylbenzene	0.0733	0.00110	"	0.110	ND	66.7	80-120	19.0	20	QM-07
Xylene (p/m)	0.179	0.00220	"	0.220	ND	81.4	80-120	12.4	20	
Xylene (o)	0.0977	0.00110	"	0.110	ND	88.9	80-120	12.8	20	
Surrogate: 1,4-Difluorobenzene	0.128		"	0.132		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.132		91.0	75-125			

Batch P0F2907 - General Preparation (GC)**Blank (P0F2907-BLK1)**

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P0F2907 - General Preparation (GC)

LCS (P0F2907-BS1)		Prepared: 06/29/20 Analyzed: 06/30/20								
Benzene	0.0999	0.00100	mg/kg wet	0.100		99.9	70-130			
Toluene	0.0957	0.00100	"	0.100		95.7	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.187	0.00200	"	0.200		93.3	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.8	75-125			

LCS Dup (P0F2907-BSD1)		Prepared: 06/29/20 Analyzed: 06/30/20								
Benzene	0.0974	0.00100	mg/kg wet	0.100		97.4	70-130	2.57	20	
Toluene	0.0946	0.00100	"	0.100		94.6	70-130	1.12	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	1.85	20	
Xylene (p/m)	0.188	0.00200	"	0.200		94.2	70-130	1.00	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	0.895	20	
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			

Calibration Blank (P0F2907-CCB1)		Prepared: 06/29/20 Analyzed: 06/30/20								
Benzene	0.00		mg/kg wet							
Toluene	0.410		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	1.03		"							
Xylene (o)	0.390		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.8	75-125			

Calibration Blank (P0F2907-CCB2)		Prepared: 06/29/20 Analyzed: 07/01/20								
Benzene	0.00		mg/kg wet							
Toluene	0.380		"							
Ethylbenzene	0.360		"							
Xylene (p/m)	0.710		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 22 of 33

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0F2907 - General Preparation (GC)**Calibration Blank (P0F2907-CCB3)**

Prepared: 06/29/20 Analyzed: 07/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.540		"							
Ethylbenzene	0.340		"							
Xylene (p/m)	1.15		"							
Xylene (o)	0.340		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.3	75-125			

Calibration Check (P0F2907-CCV1)

Prepared: 06/29/20 Analyzed: 06/30/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0970	0.00100	"	0.100		97.0	80-120			
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.5	75-125			

Calibration Check (P0F2907-CCV2)

Prepared: 06/29/20 Analyzed: 07/01/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.0972	0.00100	"	0.100		97.2	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.5	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.1	75-125			

Calibration Check (P0F2907-CCV3)

Prepared: 06/29/20 Analyzed: 07/01/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0F2907 - General Preparation (GC)

Matrix Spike (P0F2907-MS1)	Source: 0F26003-10			Prepared: 06/29/20		Analyzed: 07/01/20				
Benzene	0.0850	0.00100	mg/kg dry	0.100	ND	85.0	80-120			
Toluene	0.0759	0.00100	"	0.100	ND	75.9	80-120			QM-07
Ethylbenzene	0.0379	0.00100	"	0.100	ND	37.9	80-120			QM-07
Xylene (p/m)	0.0868	0.00200	"	0.200	ND	43.4	80-120			QM-07
Xylene (o)	0.0419	0.00100	"	0.100	ND	41.9	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0781		"	0.120		65.1	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			

Matrix Spike Dup (P0F2907-MSD1)	Source: 0F26003-10			Prepared: 06/29/20		Analyzed: 07/01/20				
Benzene	0.106	0.00100	mg/kg dry	0.100	ND	106	80-120	21.5	20	QM-07
Toluene	0.0972	0.00100	"	0.100	ND	97.2	80-120	24.6	20	QM-07
Ethylbenzene	0.0815	0.00100	"	0.100	ND	81.5	80-120	73.1	20	QM-07
Xylene (p/m)	0.128	0.00200	"	0.200	ND	63.9	80-120	38.2	20	QM-07
Xylene (o)	0.0669	0.00100	"	0.100	ND	66.9	80-120	46.0	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0942		"	0.120		78.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 24 of 33

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2608 - *** DEFAULT PREP ***										
Blank (P0F2608-BLK1) Prepared & Analyzed: 06/26/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0F2608-BS1) Prepared & Analyzed: 06/26/20										
Chloride	391	1.00	mg/kg wet	400		97.8	80-120			
LCS Dup (P0F2608-BSD1) Prepared & Analyzed: 06/26/20										
Chloride	391	1.00	mg/kg wet	400		97.7	80-120	0.118	20	
Calibration Blank (P0F2608-CCB2) Prepared & Analyzed: 06/26/20										
Chloride	0.00		mg/kg wet							
Calibration Check (P0F2608-CCV1) Prepared & Analyzed: 06/26/20										
Chloride	19.0		mg/kg	20.0		95.2	0-200			
Calibration Check (P0F2608-CCV2) Prepared & Analyzed: 06/26/20										
Chloride	19.2		mg/kg	20.0		95.8	0-200			
Calibration Check (P0F2608-CCV3) Prepared: 06/26/20 Analyzed: 06/27/20										
Chloride	21.0		mg/kg	20.0		105	0-200			
Matrix Spike (P0F2608-MS1) Source: 0F24014-02 Prepared & Analyzed: 06/26/20										
Chloride	14300	27.2	mg/kg dry	2720	11100	117	80-120			
Matrix Spike (P0F2608-MS2) Source: 0F25004-10 Prepared & Analyzed: 06/26/20										
Chloride	551	1.12	mg/kg dry	562	36.5	91.6	80-120			
Matrix Spike Dup (P0F2608-MSD1) Source: 0F24014-02 Prepared & Analyzed: 06/26/20										
Chloride	13900	27.2	mg/kg dry	2720	11100	102	80-120	3.06	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2608 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0F2608-MSD2)		Source: 0F25004-10			Prepared & Analyzed: 06/26/20					
Chloride	559	1.12	mg/kg dry	562	36.5	93.0	80-120	1.34	20	
Batch P0F2701 - *** DEFAULT PREP ***										
Blank (P0F2701-BLK1)		Prepared: 06/27/20 Analyzed: 06/29/20								
% Moisture	ND	0.1	%							
Duplicate (P0F2701-DUP1)		Source: 0F26003-14			Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	ND	0.1	%		ND				20	
Duplicate (P0F2701-DUP2)		Source: 0F26010-11			Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0F2701-DUP3)		Source: 0F26010-38			Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0F2701-DUP4)		Source: 0F26015-11			Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	ND	0.1	%		ND				20	
Batch P0F2901 - *** DEFAULT PREP ***										
LCS (P0F2901-BS1)		Prepared & Analyzed: 06/29/20								
Chloride	408	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0F2901-BSD1)		Prepared & Analyzed: 06/29/20								
Chloride	407	1.00	mg/kg wet	400		102	80-120	0.260	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 26 of 33

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2901 - *** DEFAULT PREP ***										
Calibration Blank (P0F2901-CCB2)										
Chloride	0.00		mg/kg wet							Prepared & Analyzed: 06/29/20
Calibration Check (P0F2901-CCV1)										
Chloride	19.7		mg/kg	20.0		98.6	0-200			Prepared & Analyzed: 06/29/20
Calibration Check (P0F2901-CCV2)										
Chloride	19.9		mg/kg	20.0		99.3	0-200			Prepared & Analyzed: 06/29/20
Matrix Spike (P0F2901-MS1)										
Chloride	8900	10.9	mg/kg dry	1090	7720	108	80-120			Source: 0F26003-06 Prepared & Analyzed: 06/29/20
Matrix Spike (P0F2901-MS2)										
Chloride	516	1.00	mg/kg dry		29.5		80-120			Source: 0F26003-16 Prepared & Analyzed: 06/29/20 QM-05
Matrix Spike Dup (P0F2901-MSD1)										
Chloride	8990	10.9	mg/kg dry	1090	7720	117	80-120	1.07	20	Source: 0F26003-06 Prepared & Analyzed: 06/29/20
Matrix Spike Dup (P0F2901-MSD2)										
Chloride	485	1.00	mg/kg dry		29.5		80-120	6.12	20	Source: 0F26003-16 Prepared & Analyzed: 06/29/20 QM-05

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0F2606 - TX 1005										
Blank (P0F2606-BLK1)										
Prepared & Analyzed: 06/26/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			
LCS (P0F2606-BS1)										
Prepared & Analyzed: 06/26/20										
C6-C12	946	25.0	mg/kg wet	1000		94.6	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			
LCS Dup (P0F2606-BS1)										
Prepared & Analyzed: 06/26/20										
C6-C12	998	25.0	mg/kg wet	1000		99.8	75-125	5.30	20	
>C12-C28	1140	25.0	"	1000		114	75-125	3.70	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	57.0		"	50.0		114	70-130			
Calibration Check (P0F2606-CCV1)										
Prepared & Analyzed: 06/26/20										
C6-C12	480	25.0	mg/kg wet	500		96.0	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			
Calibration Check (P0F2606-CCV2)										
Prepared: 06/26/20 Analyzed: 06/27/20										
C6-C12	480	25.0	mg/kg wet	500		95.9	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 28 of 33

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch POF2606 - TX 1005

Matrix Spike (POF2606-MS1)

Source: 0F26003-16

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	1080	25.0	mg/kg dry	1000	10.9	107	75-125			
>C12-C28	1150	25.0	"	1000	ND	115	75-125			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	63.7		"	50.0		127	70-130			

Matrix Spike Dup (POF2606-MSD1)

Source: 0F26003-16

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	1060	25.0	mg/kg dry	1000	10.9	105	75-125	2.25	20	
>C12-C28	1170	25.0	"	1000	ND	117	75-125	1.86	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	61.7		"	50.0		123	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- 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
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 7/5/2020

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Marrison & Associates, Inc.

Environmental Consultants

507 N. Marlenfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 6/25/20
PO#:
PROJECT LOCATION OR NAME: Dacuta Lake Pit
LAI PROJECT #: 20-0100-05 COLLECTOR: PS

NO 1180
CHAIN-OF-CUSTODY

Data Reported to:

TRRP report?
 Yes No

TIME ZONE:
Time zone/State:

MST

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/>	ICE	UNPRESERVED
S-1 (0.5)	1	6/25/20	1030	S	1				X	X
S-1 (1)	2		1035							X
S-2 (0.5)	3		1037							X
S-2 (1)	4		1040							X
S-3 (0.5)	5		1045							X
S-3 (1)	6		1047							X
S-4 (0.5)	7		1105							X
S-4 (1)	8		1110							X
S-5 (0.5)	9		1115							X
S-5 (1)	10		1120							X
S-6 (0.5)	11		1125							X
S-6 (1)	12		1130							X
S-7 (0.5)	13		1135							X
S-7 (1)	14		1140							X
S-8 (0.5)	15		1150							X
TOTAL	15									

ANALYSES
BTEX/MTBE
TRPH 418 I TPH 1005 TPH 1006
GASOLINE MOD 8015
DIESEL - MOD 8015
OIL - MOD 8015
VOC 8260
SVOC 8270 PAH 8270 HOLDPAH
8081 PESTICIDES 8151 HERBICIDES
TBLP - METALS (RCRA) TCLP - PEST HERB Semi-VOC
TOTAL METALS (RCRA) FLASHPOINT
LEAD - TOTAL D.W. 200.8 TCLP
RCL TOX % MOISTURE CYANIDE
TDS TSS
PH HEXAVALENT CHROMIUM
EXPLOSIVES PENTACHLORATE
CHLORIDE ANIONS ALKALINITY

FIELD NOTES

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	TURN AROUND TIME	LABORATORY USE ONLY
<i>[Signature]</i>	9:20	<i>[Signature]</i>		NORMAL <input checked="" type="checkbox"/>	RECEIVING TEMP: <u>22-1.2</u> THERM#: <u>CFH</u>
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	2 DAY <input type="checkbox"/>	CUSTOMER SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	OTHER <input type="checkbox"/>	CARRIER BILL # <u> </u>
LABORATORY: <u>PBEL</u>					HAND DELIVERED <input type="checkbox"/>

Received by QCD: 12/16/2020 11:27:06 AM

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Location: NM
Lab Order Number: 0H31003



Current Certification

Report Date: 09/03/20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ 1'	0H31003-01	Soil	08/28/20 10:37	08-31-2020 10:10
S-1 @ 3'	0H31003-02	Soil	08/28/20 10:40	08-31-2020 10:10
S-1 @ 5'	0H31003-03	Soil	08/28/20 10:42	08-31-2020 10:10
S-2 @ 1'	0H31003-05	Soil	08/28/20 11:15	08-31-2020 10:10
S-2 @ 3'	0H31003-06	Soil	08/28/20 11:17	08-31-2020 10:10
S-3 @ 1'	0H31003-09	Soil	08/28/20 12:10	08-31-2020 10:10
S-4 @ 1'	0H31003-13	Soil	08/28/20 12:40	08-31-2020 10:10
S-4 @ 3'	0H31003-14	Soil	08/28/20 12:42	08-31-2020 10:10
S-9 @ 1'	0H31003-17	Soil	08/28/20 11:00	08-31-2020 10:10
S-10 @ 1'	0H31003-21	Soil	08/28/20 11:30	08-31-2020 10:10
S-11 @ 1'	0H31003-25	Soil	08/28/20 12:20	08-31-2020 10:10
S-12 @ 1'	0H31003-29	Soil	08/28/20 12:55	08-31-2020 10:10

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 1'
OH31003-01 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.1 %		75-125	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.2 %		75-125	POH3119	08/31/20 15:57	09/01/20 08:22	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7970	10.8	mg/kg dry	10	POH3108	08/31/20 16:24	08/31/20 18:14	EPA 300.0	
% Moisture	7.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 16:50	TPH 8015M	
>C12-C28	43.8	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 16:50	TPH 8015M	
>C28-C35	108	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 16:50	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %		70-130	POH3113	08/31/20 13:30	08/31/20 16:50	TPH 8015M	
Surrogate: o-Terphenyl		110 %		70-130	POH3113	08/31/20 13:30	08/31/20 16:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	152	26.9	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 16:50	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 3'
0H31003-02 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Permian Basin Environmental Lab, L.P.										
BTEX by 8021B										
Benzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Toluene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Ethylbenzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Xylene (p/m)	ND	0.00215	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Xylene (o)	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Surrogate: 4-Bromofluorobenzene		88.9 %	75-125		POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		87.9 %	75-125		POH3119	08/31/20 15:57	09/01/20 08:42	EPA 8021B		

General Chemistry Parameters by EPA / Standard Methods

Chloride	702	1.08	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 19:01	EPA 300.0
% Moisture	7.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:14	TPH 8015M
>C12-C28	50.6	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:14	TPH 8015M
>C28-C35	ND	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:14	TPH 8015M
Surrogate: 1-Chlorooctane		112 %	70-130		POH3113	08/31/20 13:30	08/31/20 17:14	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		POH3113	08/31/20 13:30	08/31/20 17:14	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	50.6	26.9	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 17:14	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 @ 5'
0H31003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	50.1	1.04	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 19:16	EPA 300.0	
% Moisture	4.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 1'
0H31003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.9 %		75-125	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.7 %		75-125	POH3119	08/31/20 15:57	09/01/20 09:02	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7250	10.8	mg/kg dry	10	POH3108	08/31/20 16:24	09/01/20 08:40	EPA 300.0	
% Moisture	7.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:37	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:37	TPH 8015M	
>C28-C35	91.5	26.9	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 17:37	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %		70-130	POH3113	08/31/20 13:30	08/31/20 17:37	TPH 8015M	
Surrogate: o-Terphenyl		124 %		70-130	POH3113	08/31/20 13:30	08/31/20 17:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	91.5	26.9	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 17:37	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 6 of 32

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 @ 3'
OH31003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.8 %	75-125		POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.9 %	75-125		POH3119	08/31/20 15:57	09/01/20 09:23	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	364	1.11	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 20:03	EPA 300.0	
% Moisture	10.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:00	TPH 8015M	
>C12-C28	31.6	27.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:00	TPH 8015M	
>C28-C35	50.9	27.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:00	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		POH3113	08/31/20 13:30	08/31/20 18:00	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		POH3113	08/31/20 13:30	08/31/20 18:00	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	82.6	27.8	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 18:00	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 @ 1'
0H31003-09 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.4 %		75-125	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.0 %		75-125	POH3119	08/31/20 15:57	09/01/20 09:43	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	577	1.05	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 20:49	EPA 300.0	
% Moisture	5.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:24	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:24	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 18:24	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %		70-130	POH3113	08/31/20 13:30	08/31/20 18:24	TPH 8015M	
Surrogate: o-Terphenyl		144 %		70-130	POH3113	08/31/20 13:30	08/31/20 18:24	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 18:24	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 8 of 32

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 1'
OH31003-13 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Permian Basin Environmental Lab, L.P.										
BTEX by 8021B										
Benzene	ND	0.00103	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Toluene	ND	0.00103	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Ethylbenzene	ND	0.00103	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Xylene (p/m)	ND	0.00206	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Xylene (o)	ND	0.00103	mg/kg dry	1	POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		85.0 %	75-125		POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		
Surrogate: 4-Bromofluorobenzene		93.7 %	75-125		POH3119	08/31/20 15:57	09/01/20 10:24	EPA 8021B		

General Chemistry Parameters by EPA / Standard Methods

Chloride	1630	1.03	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 22:54	EPA 300.0
% Moisture	3.0	0.1	%	1	POI0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 19:33	TPH 8015M
>C12-C28	78.2	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 19:33	TPH 8015M
>C28-C35	31.3	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 19:33	TPH 8015M
Surrogate: 1-Chlorooctane		105 %	70-130		POH3113	08/31/20 13:30	08/31/20 19:33	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		POH3113	08/31/20 13:30	08/31/20 19:33	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	109	25.8	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 19:33	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 @ 3'

OH31003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.0 %	75-125		P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.8 %	75-125		P0I0106	09/01/20 12:23	09/01/20 16:48	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.48	1.04	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 23:09	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0I0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 20:43	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 20:43	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 20:43	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		POH3113	08/31/20 13:30	08/31/20 20:43	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		POH3113	08/31/20 13:30	08/31/20 20:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 20:43	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 @ 1'
OH31003-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.5 %	75-125		P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.1 %	75-125		P0I0106	09/01/20 12:23	09/01/20 17:09	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	75.8	1.09	mg/kg dry	1	POH3108	08/31/20 16:24	08/31/20 23:56	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0I0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:06	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:06	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:06	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		POH3113	08/31/20 13:30	08/31/20 21:06	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		POH3113	08/31/20 13:30	08/31/20 21:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 21:06	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 @ 1'
OH31003-21 (Soil)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.3 %	75-125		P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %	75-125		P0I0106	09/01/20 12:23	09/01/20 17:50	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.7	1.03	mg/kg dry	1	P0I0103	09/01/20 09:16	09/01/20 11:09	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0I0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:52	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:52	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 21:52	TPH 8015M	
Surrogate: 1-Chlorooctane		98.2 %	70-130		POH3113	08/31/20 13:30	08/31/20 21:52	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		POH3113	08/31/20 13:30	08/31/20 21:52	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 21:52	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 @ 1'
OH31003-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.1 %	75-125		P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.4 %	75-125		P0I0106	09/01/20 12:23	09/01/20 18:31	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	456	1.02	mg/kg dry	1	P0I0103	09/01/20 09:16	09/01/20 12:42	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0I0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 22:38	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 22:38	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POH3113	08/31/20 13:30	08/31/20 22:38	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		POH3113	08/31/20 13:30	08/31/20 22:38	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		POH3113	08/31/20 13:30	08/31/20 22:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 22:38	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 @ 1'
OH31003-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.1 %		75-125	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %		75-125	P0I0106	09/01/20 12:23	09/01/20 19:11	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	36.7	1.02	mg/kg dry	1	P0I0103	09/01/20 09:16	09/01/20 13:44	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0I0105	09/01/20 11:08	09/01/20 11:24	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0H3113	08/31/20 13:30	08/31/20 23:24	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0H3113	08/31/20 13:30	08/31/20 23:24	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0H3113	08/31/20 13:30	08/31/20 23:24	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %		70-130	P0H3113	08/31/20 13:30	08/31/20 23:24	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	P0H3113	08/31/20 13:30	08/31/20 23:24	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	08/31/20 13:30	08/31/20 23:24	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0H3119 - General Preparation (GC)**Blank (P0H3119-BLK1)**

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.3	75-125			

LCS (P0H3119-BS1)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130			
Toluene	0.0966	0.00100	"	0.100		96.6	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.0	75-125			

LCS Dup (P0H3119-BSD1)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	70-130	12.5	20	
Toluene	0.0894	0.00100	"	0.100		89.4	70-130	7.80	20	
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	70-130	5.35	20	
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	70-130	10.3	20	
Xylene (o)	0.0920	0.00100	"	0.100		92.0	70-130	11.2	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			

Calibration Blank (P0H3119-CCB1)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.700		"							
Ethylbenzene	0.620		"							
Xylene (p/m)	1.34		"							
Xylene (o)	0.470		"							
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.4	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P0H3119 - General Preparation (GC)**Calibration Blank (P0H3119-CCB2)**

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.880		"							
Ethylbenzene	0.380		"							
Xylene (p/m)	0.730		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.7	75-125			

Calibration Check (P0H3119-CCV1)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0941	0.00100	"	0.100		94.1	80-120			
Ethylbenzene	0.0954	0.00100	"	0.100		95.4	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.6	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.4	75-125			

Calibration Check (P0H3119-CCV2)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	80-120			
Toluene	0.0928	0.00100	"	0.100		92.8	80-120			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.8	75-125			

Calibration Check (P0H3119-CCV3)

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.0926	0.00100	"	0.100		92.6	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.3	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.6	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0H3119 - General Preparation (GC)**Matrix Spike (P0H3119-MS1)**

Source: 0H31009-21

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.0601	0.00104	mg/kg dry	0.104	ND	57.7	80-120			QM-07
Toluene	0.0452	0.00104	"	0.104	0.00165	41.8	80-120			QM-07
Ethylbenzene	0.0440	0.00104	"	0.104	ND	42.2	80-120			QM-07
Xylene (p/m)	0.0734	0.00208	"	0.208	ND	35.2	80-120			QM-07
Xylene (o)	0.0306	0.00104	"	0.104	ND	29.4	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.119		"	0.125		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.125		91.9	75-125			

Matrix Spike Dup (P0H3119-MSD1)

Source: 0H31009-21

Prepared: 08/31/20 Analyzed: 09/01/20

Benzene	0.0549	0.00104	mg/kg dry	0.104	ND	52.7	80-120	8.97	20	QM-07
Toluene	0.0401	0.00104	"	0.104	0.00165	36.9	80-120	12.4	20	QM-07
Ethylbenzene	0.0360	0.00104	"	0.104	ND	34.5	80-120	20.0	20	QM-07
Xylene (p/m)	0.0595	0.00208	"	0.208	ND	28.5	80-120	20.9	20	QM-07
Xylene (o)	0.0238	0.00104	"	0.104	ND	22.9	80-120	24.9	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.111		"	0.125		88.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.125		95.7	75-125			

Batch P0I0106 - General Preparation (GC)**Blank (P0I0106-BLK1)**

Prepared & Analyzed: 09/01/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.0	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P010106 - General Preparation (GC)**LCS (P010106-BS1)**

Prepared & Analyzed: 09/01/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130			
Toluene	0.0976	0.00100	"	0.100		97.6	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	70-130			
Xylene (o)	0.0991	0.00100	"	0.100		99.1	70-130			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.3	75-125			

LCS Dup (P010106-BSD1)

Prepared & Analyzed: 09/01/20

Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	70-130	7.90	20	
Toluene	0.0875	0.00100	"	0.100		87.5	70-130	10.9	20	
Ethylbenzene	0.0937	0.00100	"	0.100		93.7	70-130	11.6	20	
Xylene (p/m)	0.179	0.00200	"	0.200		89.4	70-130	10.5	20	
Xylene (o)	0.0878	0.00100	"	0.100		87.8	70-130	12.1	20	
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0997		"	0.120		83.1	75-125			

Calibration Blank (P010106-CCB1)

Prepared & Analyzed: 09/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.700		"							
Ethylbenzene	0.410		"							
Xylene (p/m)	0.770		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.3	75-125			

Calibration Blank (P010106-CCB2)

Prepared & Analyzed: 09/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.590		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.480		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		85.1	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P010106 - General Preparation (GC)**Calibration Check (P010106-CCV1)**

Prepared & Analyzed: 09/01/20

Benzene	0.0915	0.00100	mg/kg wet	0.100		91.5	80-120			
Toluene	0.0827	0.00100	"	0.100		82.7	80-120			
Ethylbenzene	0.0869	0.00100	"	0.100		86.9	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120			
Xylene (o)	0.0913	0.00100	"	0.100		91.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.9	75-125			

Calibration Check (P010106-CCV2)

Prepared & Analyzed: 09/01/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0946	0.00100	"	0.100		94.6	80-120			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		94.9	80-120			
Xylene (o)	0.0986	0.00100	"	0.100		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	75-125			

Calibration Check (P010106-CCV3)

Prepared: 09/01/20 Analyzed: 09/02/20

Benzene	0.0973	0.00100	mg/kg wet	0.100		97.3	80-120			
Toluene	0.0976	0.00100	"	0.100		97.6	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.8	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.2	75-125			

Matrix Spike (P010106-MS1)

Source: 0101007-01

Prepared & Analyzed: 09/01/20

Benzene	0.0681	0.00110	mg/kg dry	0.110	ND	62.0	80-120			QM-07
Toluene	0.0473	0.00110	"	0.110	0.00110	42.0	80-120			QM-07
Ethylbenzene	0.0508	0.00110	"	0.110	0.00590	40.9	80-120			QM-07
Xylene (p/m)	0.105	0.00220	"	0.220	0.0345	32.3	80-120			QM-07
Xylene (o)	0.0502	0.00110	"	0.110	0.0119	34.8	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.112		"	0.132		85.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.132		91.7	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0I0106 - General Preparation (GC)

Matrix Spike Dup (P0I0106-MSD1)

Source: 0I01007-01

Prepared: 09/01/20

Analyzed: 09/02/20

Benzene	0.0710	0.00110	mg/kg dry	0.110	ND	64.7	80-120	4.23	20	QM-07
Toluene	0.0453	0.00110	"	0.110	0.00110	40.2	80-120	4.28	20	QM-07
Ethylbenzene	0.0501	0.00110	"	0.110	0.00590	40.2	80-120	1.58	20	QM-07
Xylene (p/m)	0.102	0.00220	"	0.220	0.0345	30.7	80-120	5.07	20	QM-07
Xylene (o)	0.0480	0.00110	"	0.110	0.0119	32.8	80-120	5.86	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.114		"	0.132		86.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.132		94.2	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H3108 - *** DEFAULT PREP ***										
Blank (P0H3108-BLK1)										
Prepared & Analyzed: 08/31/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0H3108-BS1)										
Prepared & Analyzed: 08/31/20										
Chloride	405	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P0H3108-BSD1)										
Prepared & Analyzed: 08/31/20										
Chloride	404	1.00	mg/kg wet	400		101	80-120	0.220	20	
Calibration Blank (P0H3108-CCB1)										
Prepared & Analyzed: 08/31/20										
Chloride	0.00		mg/kg wet							
Calibration Blank (P0H3108-CCB2)										
Prepared & Analyzed: 08/31/20										
Chloride	0.00		mg/kg wet							
Calibration Check (P0H3108-CCV1)										
Prepared & Analyzed: 08/31/20										
Chloride	19.8		mg/kg	20.0		99.0	0-200			
Calibration Check (P0H3108-CCV2)										
Prepared & Analyzed: 08/31/20										
Chloride	19.9		mg/kg	20.0		99.4	0-200			
Calibration Check (P0H3108-CCV3)										
Prepared: 08/31/20 Analyzed: 09/01/20										
Chloride	18.8		mg/kg	20.0		94.0	0-200			
Matrix Spike (P0H3108-MS1)										
Source: 0H31003-01 Prepared & Analyzed: 08/31/20										
Chloride	9090	10.8	mg/kg dry	1080	7970	105	80-120			
Matrix Spike (P0H3108-MS2)										
Source: 0H31003-11 Prepared & Analyzed: 08/31/20										
Chloride	524	1.05	mg/kg dry	526	18.7	96.0	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0H3108 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0H3108-MSD1)		Source: 0H31003-01			Prepared & Analyzed: 08/31/20					
Chloride	8950	10.8	mg/kg dry	1080	7970	91.5	80-120	1.58	20	
Matrix Spike Dup (P0H3108-MSD2)		Source: 0H31003-11			Prepared & Analyzed: 08/31/20					
Chloride	555	1.05	mg/kg dry	526	18.7	102	80-120	5.70	20	
Batch P0I0103 - *** DEFAULT PREP ***										
Blank (P0I0103-BLK1)		Prepared & Analyzed: 09/01/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0I0103-BS1)		Prepared & Analyzed: 09/01/20								
Chloride	409	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P0I0103-BSD1)		Prepared & Analyzed: 09/01/20								
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.245	20	
Calibration Blank (P0I0103-CCB1)		Prepared & Analyzed: 09/01/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0I0103-CCB2)		Prepared & Analyzed: 09/01/20								
Chloride	0.00		mg/kg wet							
Calibration Check (P0I0103-CCV1)		Prepared & Analyzed: 09/01/20								
Chloride	18.9		mg/kg	20.0		94.7	0-200			
Calibration Check (P0I0103-CCV2)		Prepared & Analyzed: 09/01/20								
Chloride	19.0		mg/kg	20.0		95.0	0-200			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0I0103 - * DEFAULT PREP *******Calibration Check (P0I0103-CCV3)**

Prepared & Analyzed: 09/01/20

Chloride	19.1		mg/kg	20.0		95.7	0-200			
----------	------	--	-------	------	--	------	-------	--	--	--

Matrix Spike (P0I0103-MS1)

Source: 0H31003-21

Prepared & Analyzed: 09/01/20

Chloride	531	1.03	mg/kg dry	515	28.7	97.5	80-120			
----------	-----	------	-----------	-----	------	------	--------	--	--	--

Matrix Spike (P0I0103-MS2)

Source: 0H31003-31

Prepared & Analyzed: 09/01/20

Chloride	516	1.04	mg/kg dry	521	20.6	95.2	80-120			
----------	-----	------	-----------	-----	------	------	--------	--	--	--

Matrix Spike Dup (P0I0103-MSD1)

Source: 0H31003-21

Prepared & Analyzed: 09/01/20

Chloride	515	1.03	mg/kg dry	515	28.7	94.3	80-120	3.10	20	
----------	-----	------	-----------	-----	------	------	--------	------	----	--

Matrix Spike Dup (P0I0103-MSD2)

Source: 0H31003-31

Prepared & Analyzed: 09/01/20

Chloride	513	1.04	mg/kg dry	521	20.6	94.5	80-120	0.692	20	
----------	-----	------	-----------	-----	------	------	--------	-------	----	--

Batch P0I0105 - * DEFAULT PREP *******Blank (P0I0105-BLK1)**

Prepared & Analyzed: 09/01/20

% Moisture	ND	0.1	%							
------------	----	-----	---	--	--	--	--	--	--	--

Blank (P0I0105-BLK2)

Prepared & Analyzed: 09/01/20

% Moisture	ND	0.1	%							
------------	----	-----	---	--	--	--	--	--	--	--

Blank (P0I0105-BLK3)

Prepared & Analyzed: 09/01/20

% Moisture	ND	0.1	%							
------------	----	-----	---	--	--	--	--	--	--	--

Blank (P0I0105-BLK4)

Prepared & Analyzed: 09/01/20

% Moisture	ND	0.1	%							
------------	----	-----	---	--	--	--	--	--	--	--

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P010105 - *** DEFAULT PREP ***										
Blank (P010105-BLK5) Prepared & Analyzed: 09/01/20										
% Moisture	ND	0.1	%							
Blank (P010105-BLK6) Prepared & Analyzed: 09/01/20										
% Moisture	ND	0.1	%							
Blank (P010105-BLK7) Prepared & Analyzed: 09/01/20										
% Moisture	ND	0.1	%							
Blank (P010105-BLK8) Prepared & Analyzed: 09/01/20										
% Moisture	ND	0.1	%							
Duplicate (P010105-DUP1) Source: 0H28014-01 Prepared & Analyzed: 09/01/20										
% Moisture	ND	0.1	%		ND				20	
Duplicate (P010105-DUP2) Source: 0H28016-09 Prepared & Analyzed: 09/01/20										
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P010105-DUP3) Source: 0H28017-13 Prepared & Analyzed: 09/01/20										
% Moisture	17.0	0.1	%		16.0			6.06	20	
Duplicate (P010105-DUP4) Source: 0H28017-23 Prepared & Analyzed: 09/01/20										
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P010105-DUP5) Source: 0H28018-02 Prepared & Analyzed: 09/01/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P010105-DUP6) Source: 0H31003-07 Prepared & Analyzed: 09/01/20										
% Moisture	3.0	0.1	%		3.0			0.00	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0H3113 - TX 1005

Blank (P0H3113-BLK1)

Prepared & Analyzed: 08/31/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.1		"	100		97.1	70-130			
Surrogate: o-Terphenyl	51.7		"	50.0		103	70-130			

LCS (P0H3113-BS1)

Prepared & Analyzed: 08/31/20

C6-C12	819	25.0	mg/kg wet	1000		81.9	75-125			
>C12-C28	903	25.0	"	1000		90.3	75-125			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.6	70-130			

LCS Dup (P0H3113-BSD1)

Prepared & Analyzed: 08/31/20

C6-C12	819	25.0	mg/kg wet	1000		81.9	75-125	0.00855	20	
>C12-C28	906	25.0	"	1000		90.6	75-125	0.282	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

Calibration Check (P0H3113-CCV1)

Prepared & Analyzed: 08/31/20

C6-C12	469	25.0	mg/kg wet	500		93.8	85-115			
>C12-C28	473	25.0	"	500		94.5	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

Calibration Check (P0H3113-CCV2)

Prepared & Analyzed: 08/31/20

C6-C12	476	25.0	mg/kg wet	500		95.3	85-115			
>C12-C28	486	25.0	"	500		97.2	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 26 of 32

Larson & Associates, Inc.
 P.O. Box 50685
 Midland TX, 79710

Project: Dagger Lake Pit
 Project Number: 20-0100-05
 Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P0H3113 - TX 1005

Matrix Spike (P0H3113-MS1)

Source: 0H31003-01

Prepared: 08/31/20 Analyzed: 09/01/20

C6-C12	1060	26.9	mg/kg dry	1080	11.9	97.8	75-125			
>C12-C28	1210	26.9	"	1080	43.8	109	75-125			
Surrogate: 1-Chlorooctane	117		"	108		109	70-130			
Surrogate: o-Terphenyl	55.9		"	53.8		104	70-130			

Matrix Spike Dup (P0H3113-MSD1)

Source: 0H31003-01

Prepared: 08/31/20 Analyzed: 09/01/20

C6-C12	1030	26.9	mg/kg dry	1080	11.9	95.1	75-125	2.81	20	
>C12-C28	1160	26.9	"	1080	43.8	104	75-125	4.09	20	
Surrogate: 1-Chlorooctane	111		"	108		103	70-130			
Surrogate: o-Terphenyl	53.0		"	53.8		98.6	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- R3 The RPD exceeded the acceptance limit due to sample matrix effects.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BULK Samples received in Bulk soil containers
- 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
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 9/3/2020

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake Pit
Project Number: 20-0100-05
Project Manager: Mark Larson

Fax: (432) 687-0456

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Varison & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/16/20 PAGE 2 OF 3
PO#: 0431003 LAB WORK ORDER#
PROJECT LOCATION OR NAME: Days Lake Pit COLLECTOR: DS/TS
LAI PROJECT #: 20-0100-05

Nº 1274
CHAIN-OF-CUSTODY

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/>	ICE		
S-4'10'	16	12/16/20	12:47	S	1					X	step choice
S-9'1'	17		11:00							X	other below
S-9'3'	18		11:02							X	100 mg/kg
S-9'5'	19		11:05							X	
S-9'10'	20		11:07							X	
S-10'1'	21		11:30							X	
S-10'3'	22		11:32							X	
S-10'5'	23		11:35							X	
S-10'10'	24		11:36							X	
S-11'1'	25		12:20							X	
S-11'3'	26		12:22							X	
S-11'5'	27		12:25							X	
S-11'10'	28		12:27							X	
S-12'1'	29		12:55							X	
S-12'3'	30		12:57							X	
TOTAL					15						

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 12/16/20 10:10 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 12/16/20 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 12/16/20 RECEIVED BY: (Signature) [Signature]

LABORATORY: ABEL

TURN AROUND TIME
 NORMAL
 1 DAY
 2 DAY
 OTHER

LABORATORY USE ONLY: 1:0 THERM#: GH1
 RECEIVING TEMP: DD CUSTODY SEALS - BROKEN INTACT NOT USED
 CARRIER BILL # HAND DELIVERED

Marson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2/13/2020 PAGE 3 OF 3
PO#: _____ LAB WORK ORDER#: 0431003
PROJECT LOCATION OR NAME: Daguer Lake P.F.
LAI PROJECT #: 20-000-05 COLLECTOR: DS TT

CHAIN-OF-CUSTOMER

No 1275

TRRP report?
 Yes No

TIME ZONE:
Time zone/State:

MST

S=SOIL
W=WATER
A=AIR
P=PAINT
SL=SLUDGE
OT=OTHER

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ NaOH

ICE

UNPRESERVED

PRESERVATION

ANALYSES

BTX

TRPH 418.1

GASOLINE MOD 8015

DIESEL MOD 8015

VOC 8260

SVOC 8270

8081 PESTICIDES

8082 PCBS

TBLP - METALS (RCRA)

TCLP - PEST

TOTAL METALS (RCRA)

LEAD - TOTAL

RCI

TDS

TSS

PH

EXPLOSIVES

CHLORIDES

ANIONS

ALKALINITY

HOLDPAH

TCLP VOC

OTHER LIST

D.W. 200.8

FLASHPOINT

% MOISTURE

HEXAVALENT CHROMIUM

FECHLORATED

ALKALINITY

FIELD NOTES

STP chloride when belows 600 mg/ks

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/>	ICE	UNPRESERVED	PRESERVATION	ANALYSES	FIELD NOTES
S-12 S1	31	1/13/20	13:00	S	1								
S-12, 101	82	1/13/20	13:00	L	1								
TOTAL					2								

RELINQUISHED BY: (Signature)

[Signature]

RECEIVED BY: (Signature)

[Signature]

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: *ORGL*

TURN AROUND TIME
NORMAL 1 DAY
 5 DAY
2 DAY OTHER

LABORATORY USE ONLY: 1.0 041
RECEIVING TEMP: 00 THERM#: 62
CUSTODY SEALS - BROKEN INTACT NOT USED
 CARRIER BILL # _____
 HAND DELIVERED

Appendix E
Photographs

nRM2019638426
Remediation Deferral Request
Dagger State Com #504H
Produced Water Spill
October 20, 2020

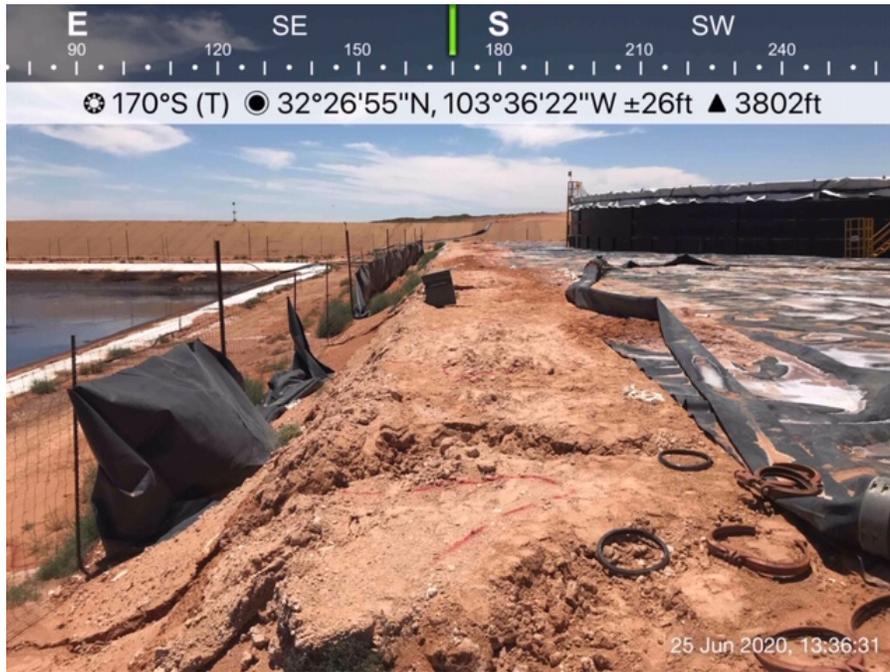


Spill area adjacent to pond viewing north



Spill area on earthen embankment viewing west

nRM2019638426
Remediation Deferral Request
Dagger State Com #504H
Produced Water Spill
October 20, 2020



Spill on earthen embankment and liner viewing south



Spill area on liner viewing northwest/north

nRM2019638426
Remediation Deferral Request
Dagger State Com #504H
Produced Water Spill
October 20, 2020

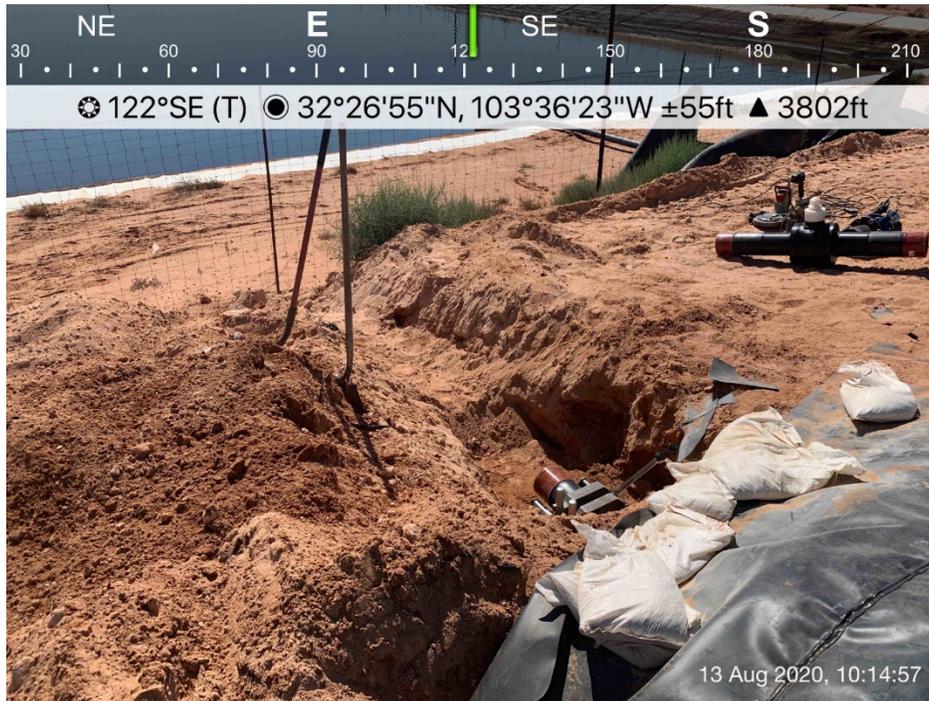


Spill area on liner viewing west



Spill area on liner viewing west

nRM2019638426
Remediation Deferral Request
Dagger State Com #504H
Produced Water Spill
October 20, 2020



Flowback equipment within spill area viewing east/southeast



High pressure lay flat lines within spill area viewing southeast

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

Action 11662

CONDITIONS OF APPROVAL

Operator:	ADVANCE ENERGY PARTNERS HAT ME	11490 Westheimer Rd., Ste 950	Houston, TX77077	OGRID:	372417	Action Number:	11662	Action Type:	C-141
-----------	--------------------------------	-------------------------------	------------------	--------	--------	----------------	-------	--------------	-------

OCD Reviewer	Condition
ceads	The OCD does not accept the depth to groundwater determination as provided. When nearby wells are used to determine depth to groundwater, the wells should within 0.5 mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. Should the responsible party encounter soils exceeding the most stringent levels listed in Table I, they will need to remediate accordingly in lieu of drilling to determine the depth to groundwater.
ceads	The deferral request is not approved at this time. Once remediation has been completed to the maximum extent possible, the responsible party may submit to the OCD a deferral request in their following report.