

Incident ID	nRM2002758392
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?	_____ 250 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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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: David HarwellTitle: COOSignature: David HarwellDate: 5/14/2020email: DHarwell@advanceenergypartners.comTelephone: 832-672-4700**OCD Only**

Received by: _____

Date: _____

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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: David Harwell Title: COO
Signature: David Harwell Date: 5/14/2020
email: DHarwell@advanceenergypartners.com Telephone: 832-672-4700

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
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Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: David Harwell Title: COOSignature: David Harwell Date: 5/14/2020email: DHarwell@advanceenergypartners.com Telephone: 832-672-4700**OCD Only**Received by: OCD Date: 5/26/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Cory Smith Date: 10/28/2020Printed Name: Cory Smith Title: Environmental Specialist

Tracking Number: nRM2002758392
DELINEATION AND REMEDIATION REPORT
Dagger Lake 5 State Com #551H
Produced Water Spill
Lea County, New Mexico

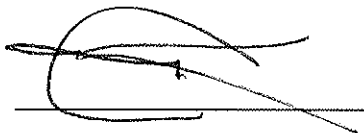
Latitude: N 32.429272°
Longitude: W -103.604440°

LAI Project No. 19-0179-07

May 7, 2020

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

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

A handwritten signature in black ink, appearing to read 'Mark J. Larson', written over a horizontal line.

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

A handwritten signature in black ink, appearing to read 'Rachel Owen', written over a horizontal line.

Rachel E. Owen
Sr. Geoscientist

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nRM2002758392
Delineation and Remediation Report
Select Energy Release, Dagger Lake #551H
Produced Water Release
May 7, 2020

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation and remediation report on behalf of Select Energy Services (Select) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water spill at Dagger 551H (Site) located in Unit P (SE/4, SE/4), Section 31, Township 21 South, Range 33 East in Lea County, New Mexico. The geodetic position is North 32.4292722° and West - 103.6044404°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release occurred on December 12, 2019, due to rupture of a 10 - inch layflat line during a produced water and freshwater changeover for Advance Energy Partners Hat Mesa, LLC (Advance Energy). Select calculated the release at 50 barrels (bbls). No fluid was recovered. The surface owner is the State of New Mexico. The surface lessee is Merchant Livestock Company. The spill is considered a major release due to the volume of released fluids greater than 25 bbls. R.T Hicks, on behalf of Advance Energy, submitted the initial C-141 to OCD District 1. The release was assigned incident tracking number nRM2002758392.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,698 feet above mean sea level (msl);
- The topography slopes gently towards the southeast;
- There are no surface water or karst features within 1,000 feet of the site;
- 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 consists of Eolian and Piedmont Deposits (Holocene to middle Pliocene);
- Groundwater may occur at approximately 250 feet below ground surface (bgs) based on an interpretation of depth to groundwater reported from wells by the U.S.G.S. and Office of the New Mexico State Engineer (OSE);
- According to OSE records the closest well (CP 00854) is located in Unit B (NW/4, NE/4), Section 33, Township 21 South, Range 33 East or about 1.86 miles northeast of the Site with depth to groundwater reported at 600 feet bgs (1996).

1.3 Remediation 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 20,000 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.

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Delineation and Remediation Report
Select Energy Release, Dagger Lake #551H
Produced Water Release
May 7, 2020

2.0 DELINEATION

On December 19, 2019, LAI personnel mapped the spill area with a Trimble sub-meter global position system (GPS) receiver. The spill area measures approximately 11,828 square feet. LAI personnel collected soil samples with a stainless steel hand auger from twelve (12) locations (S-2 through S-5, S-7, S-9 through S-13, S-15, and S-17) inside of the spill area for vertical delineation and seven (7) locations in each cardinal direction (north, south, east and west) outside of the spill area (S-1, S-6, S-8, S-14, S-16, S-18, and S-19) for horizontal delineation. Soil samples were collected to 4 feet below ground surface (bgs), depending on subsurface conditions, and placed in laboratory containers. The samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), 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 8021B, 8015M, and M300 respectively.

The laboratory reported benzene, BTEX, and TPH below the delineation limits of 10 mg/Kg, 50 mg/Kg, 100 mg/Kg in all samples, respectively. Chloride was reported above the OCD delineation limit of 600 mg/Kg in the following samples:

S-3, 0 to 1 feet bgs – 3,640 mg/Kg	S-10, 0.5 to 1 feet bgs – 5,360 mg/Kg
S-3, 2 to 3 feet bgs – 1,240 mg/Kg	S-10, 2 to 3 feet bgs – 2,570 mg/Kg
S-4, 0 to 1 feet bgs – 3,360 mg/Kg	S-11, 0 to 1 feet bgs – 6,540 mg/Kg
S-5, 0 to 1 feet bgs – 1,520 mg/Kg	S-12, 0 to 1 feet bgs – 5,720 mg/Kg
S-7, 1 to 2 feet bgs – 1,320 mg/Kg	S-13, 0 to 1 feet bgs – 4,940 mg/Kg
S-7, 3 to 4 feet bgs – 2,120 mg/Kg	S-15, 0 to 1 feet bgs – 9,690 mg/Kg
S-9, 0 to 0.5 feet bgs – 8,640 mg/Kg	S-15, 3 to 4 feet bgs – 1,160 mg/Kg
S-9, 1 to 2 feet bgs – 1,700 mg/Kg	S-17, 0 to 1 feet bgs – 7,160 mg/Kg

Under the current rule (19.15.29.11(5)(C)), delineation for chloride to 600 mg/Kg is not required where groundwater exceeds 100 feet in depth, therefore the release was delineated vertically for chloride.

Table 1 presents the delineation soil sample analytical data summary. Figure 2 presents an aerial map showing the soil sample locations. Appendix B presents the laboratory reports.

3.0 REMEDIATION

Between January 9, 2020 and March 24, 2020, P2 Construction, Inc. (P2) excavated soil from the area encompassing S-3, S-4, S-5, S-7, S-9, and S-10 to approximately 4.1 feet bgs (8,973 square feet), S-11 to 2.5 feet bgs (1,209 square feet), S-12 and S-13 to 2.5 feet bgs (1,808 square feet), S-15 to 5 feet bgs (461 square feet), and S-17 to 5 feet bgs (769 square feet). Approximately 1,479.26 cubic yards of contaminated soil were hauled to Lea Land Landfill LLC, located at mile marker #64 on HWY 62/180 near Carlsbad, New Mexico. Appendix B presents the waste manifests.

Between January 33, 2020 and March 24, 2020, LAI personnel collected confirmation samples about every 200 square feet of the excavation sidewalls and bottom. PBEL analyzed the samples for BTEX, TPH including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics

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May 7, 2020

(>C28-C35) EPA SW-846 Methods 8021B and 8015D, respectively, and chloride by EPA Method 300. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents the excavation locations. Appendix B presents the laboratory reports.

4.0 CLOSURE REQUEST

The laboratory reported concentrations of benzene, BTEX and TPH below the OCD closure criteria (Table 1, 19.15.29NMAC) in the final confirmation soil samples. The laboratory reported concentration of chloride below the OCD surface restoration limit (600 mg/Kg) in all final confirmation soil samples. Select backfilled the excavations to 4 feet bgs with clean caliche and from 4 feet bgs to surface with clean topsoil acquired from a nearby landowner. Select seeded the area with BLM Mix #3. Select respectfully requests closure for nRM2002758392. Table 2 presents the analytical data for the backfill material.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

Sample ID	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)	Chloride (mg/Kg)
RAL:						100 / 2,500				600 / 20,000
Hand Auger Soil Samples										
S-1	0 - 0.5	12/19/2019	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	60.1
	0.5 - 1	12/19/2019	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	38.4
S-2	0 - 1	12/19/2019	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	43.1
	2 - 3	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	28.6
	3 - 4	12/19/2019	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	40.5
S-3	0 - 1	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	3,640
	2 - 3	12/19/2019	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	1,240
	3 - 4	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	83.3
S-4	0 - 1	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	3,360
	2 - 3	12/19/2019	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	168
	3 - 4	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	228
S-5	0 - 1	12/19/2019	In-Situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	1,520
	2 - 3	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	59.1
	3 - 4	12/19/2019	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	170
S-6	0 - 0.5	12/19/2019	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	20.5
	0.5 - 1	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	61.0
S-7	1 - 2	12/19/2019	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	1,320
	3 - 4	12/19/2019	In-Situ	<0.00114	<0.00683	<28.4	<28.4	<28.4	<28.4	2,120

Table 1
Delineation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

S-8	0 - 0.5 0.5 - 1	12/19/2019 12/19/2019	In-Situ In-Situ	<0.00102 <0.00101	<0.00612 <0.00606	<25.5 <25.3	<25.5 <25.3	<25.5 <25.3	<25.5 <25.3	91.6 73.1
S-9	0 - 0.5 1 - 2	12/19/2019 12/19/2019	In-Situ In-Situ	<0.00100 <0.00100	<0.00600 <0.00600	<27.5 <27.8	<27.5 <27.8	<27.5 <27.8	<27.5 <27.8	8,640 1,700
S-10	0.5 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	<0.00100 <0.00100 <0.00100	<0.00600 <0.00600 <0.00600	<26.3 <26.9 <27.2	<26.3 <26.9 <27.2	<26.3 <26.9 <27.2	<26.3 <26.9 <27.2	5,360 2,570 158
S-11	0 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	<0.00100 <0.00100 <0.00100	<0.00600 <0.00600 <0.00600	<26.9 <26.6 <27.2	<26.9 <26.6 <27.2	<26.9 <26.6 <27.2	<26.9 <26.6 <27.2	6,540 104 137
S-12	0 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	<0.00100 <0.00100 <0.00100	<0.00600 <0.00600 <0.00600	<26.6 <27.8 <29.1	<26.6 <27.8 <29.1	<26.6 <27.8 <29.1	<26.6 <27.8 <29.1	5,720 57.1 145
S-13	0 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	<0.00100 <0.00100 <0.00100	<0.00600 <0.00600 <0.00600	<26.3 <26.0 <26.3	<26.3 <26.0 <26.3	<26.3 <26.0 <26.3	<26.3 <26.0 <26.3	4,940 220 174
S-14	0 - 0.5 0.5 - 1	12/19/2019 12/19/2019	In-Situ In-Situ	<0.00104 <0.00105	<0.00624 <0.00631	<26.0 <26.3	<26.0 <26.3	<26.0 <26.3	<26.0 <26.3	8.72 34.1
S-15	0 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	0.001560 <0.00100 <0.00100	<0.00439 <0.00600 <0.00600	<27.8 <27.2 <27.8	<27.8 <27.2 <27.8	<27.8 <27.2 <27.8	<27.8 <27.2 <27.8	9,690 52.0 1,160
S-16	0 - 0.5 0.5 - 1	12/19/2019 12/19/2019	In-Situ In-Situ	<0.00100 <0.00100	<0.00600 <0.00600	<25.5 <25.5	<25.5 <25.5	<25.5 <25.5	<25.5 <25.5	18.5 47.4
S-17	0 - 1 2 - 3 3 - 4	12/19/2019 12/19/2019 12/19/2019	In-Situ In-Situ In-Situ	<0.00100 <0.00100 <0.00100	<0.00600 <0.00600 <0.00600	<26.3 <26.3 <26.9	<26.3 <26.3 <26.9	<26.3 <26.3 <26.9	<26.3 <26.3 <26.9	7,160 23.4 24.3

Table 1
Delineation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

S-18	0 - 0.5	12/19/2019	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	8.51
	0.5 - 1	12/19/2019	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	5.59
S-19	0 - 0.5	12/19/2019	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	6.16
	0.5 - 1	12/19/2019	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	5.78

Notes: Laboratory analysis performed by Permian Basin Environmental Lab (PBEL), Midland, Texas by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and Method 300 (chloride).

Depth in feet below ground surface (bgs)

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

Bold and highlighted indicates that analyte was detected above OCD remediation action levels

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

Sample ID	Depth (feet)	Location	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	
RAL:							100 / 2,500					600 / 20,000
Hand Auger Soil Samples												
3.1	0 - 4	Sidewall North	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	59.8	
3.2	0 - 4	Sidewall East	1/23/2020	Excavated	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	13,200	
		Sidewall East	2/27/2020	In-Situ	<0.00102	<0.00612	<25.5	28.6	<25.5	28.6	314	
3.3	0 - 4	Sidewall South	1/23/2020	In-Situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	332	
3.4	0 - 4	Sidewall West	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	49	37.5	86.5	83.3	
3.5	4.1	Bottom	1/23/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	68.2	
3.6	4.1	Bottom	1/23/2020	In-Situ	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	467	
3.7	4.1	Bottom	2/27/2020	In-Situ	<0.00102	<0.00612	<25.5	31.1	29.0	60.1	37.1	
3.8	4.1	Bottom	2/27/2020	In-Situ	<0.00110	<0.00660	<27.5	54.8	<27.5	54.8	310	
4.1	0 - 4	Sidewall North	1/23/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	3,170	
4.2	0 - 4	Sidewall West	1/23/2020	Excavated	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	618	
		Sidewall West	2/26/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	41.9	
4.3	0 - 4	Sidewall East	1/23/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	4,350	
		Sidewall East	2/26/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	15.4	
4.4	0 - 4	Sidewall West	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	40.9	
4.5	0 - 4	Sidewall East	1/23/2020	Excavated	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	1,290	
		Sidewall East	2/26/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	25.0	
4.6	4.1	Bottom	1/23/2020	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	31.2	
4.7	4.1	Bottom	1/23/2020	In-Situ	<0.00112	<0.00692	<30.5	<30.5	<30.5	<30.5	120	
4.8	4.1	Bottom	1/23/2020	In-Situ	<0.00105	<0.00631	27.8	61.1	47.1	136	77.5	
4.9	4.1	Bottom	1/23/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	90.7	
4.10	4.1	Bottom	1/23/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	87.5	

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

5.1	0 - 3	Sidewall West	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	21.7
5.2	0 - 3	Sidewall East	1/23/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	23.1
5.3	0 - 3	Sidewall West	1/23/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	245
5.4	0 - 3	Sidewall East	1/23/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	519
5.5	0 - 3	Sidewall South	1/23/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	27.5
5.6	0 - 3	Sidewall North	1/23/2020	In-Situ	<0.00100	<0.00600	26.7	<25.0	<25.0	26.7	9.67
5.7	0 - 3	Sidewall West	1/23/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	213
5.8	3.00	Bottom	1/23/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	31.6
	4.10	Bottom	2/27/2020	In-Situ	<0.00104	<0.00624	51.5	<26.0	26.2	77.7	470.0
5.9	3.00	Bottom	1/23/2020	Excavated	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	2,330
	4.10	Bottom	2/27/2020	In-Situ	<0.00102	<0.00612	45.1	<25.5	<25.5	45.1	259
5.10	3.00	Bottom	1/23/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	2,460
	4.10	Bottom	2/27/2020	In-Situ	<0.00101	<0.00606	45.0	<25.3	<25.3	45.0	34.0
5.11	3.00	Bottom	1/23/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	945
	4.10	Bottom	2/27/2020	In-Situ	<0.00102	<0.00612	25.6	<25.5	<25.5	25.6	146
5.12	3.00	Bottom	1/23/2020	Excavated	<0.00105	<0.00631	<26.3	<26.3	<26.3	<26.3	136
	4.10	Bottom	2/27/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	24.1
5.13	3.00	Bottom	1/23/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	289
	4.10	Bottom	2/27/2020	In-Situ	<0.00102	<0.00612	28.6	<25.5	<25.5	28.6	32.2
5.14	3.00	Bottom	1/23/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	819
	4.10	Bottom	2/27/2020	In-Situ	<0.00102	<0.00612	27.6	<25.5	<25.5	27.6	85.2
5.15	0 - 3	Sidewall East	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	107
7.1	0 - 4	Sidewall West	1/23/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	54.6
7.2	0 - 4	Sidewall East	1/23/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	28.0
7.3	0 - 4	Sidewall West	1/23/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	1,290
7.4	0 - 4	Sidewall East	1/23/2020	Excavated	<0.00101	<0.00606	<25.3	26.1	<25.3	26.1	200
	0 - 4	Sidewall East	3/24/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	99.6
7.5	0 - 4	Sidewall South	1/23/2020	In-Situ	<0.00109	<0.00653	<27.2	42.2	<27.2	42.2	27.5
7.6	4.1	Bottom	1/23/2020	In-Situ	<0.00114	<0.00683	<28.4	46.5	<28.4	46.5	83.2

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

7.7	4.1	Bottom	1/23/2020	In-Situ	<0.00110	<0.00660	<27.5	<27.5	<27.5	<27.5	6,710
7.8	4.1	Bottom	1/23/2020	In-Situ	<0.00128	<0.00768	<32.1	46.8	<32.1	46.8	6,920
7.9	4.1	Bottom	1/23/2020	In-Situ	<0.00110	<0.00660	<27.5	<27.5	<27.5	<27.5	1,580
10.1	0 - 4	Sidewall North	1/27/2020	In-Situ	<0.00101	<0.00606	<25.3	40.1	26.0	66.1	418
10.2	0 - 4	Sidewall East	1/27/2020	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	114
10.3	0 - 4	Sidewall South	1/27/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	127
10.4	0 - 4	Sidewall West	1/27/2020	Excavated	<0.00106	<0.00637	<26.6	79.8	69.8	150	42.4
10.5	4.1	Bottom	1/27/2020	In-Situ	<0.00109	<0.00653	<27.2	53.0	28.9	81.9	40.5
10.6	4.1	Bottom	1/27/2020	In-Situ	<0.00112	<0.00692	<28.1	<28.1	<28.1	<28.1	22.3
10.7	4.1	Bottom	1/27/2020	In-Situ	<0.00119	<0.00714	<29.8	<29.8	<29.8	<29.8	337
10.8	4.1	Bottom	1/27/2020	In-Situ	<0.00118	<0.00707	<29.4	48.9	<29.4	48.9	102
11.1	0 - 2.5	Sidewall North	1/27/2020	In-Situ	<0.00116	<0.00697	<29.1	36.2	<29.1	36.2	13.4
11.2	0 - 2.5	Sidewall East	1/27/2020	In-Situ	<0.00127	<0.00761	<31.6	<31.6	<31.6	<31.6	26.4
11.3	0 - 2.5	Sidewall South	1/27/2020	In-Situ	<0.00118	<0.00707	<29.4	63.9	<29.4	63.9	15.4
11.4	0 - 2.5	Sidewall South	1/27/2020	In-Situ	<0.00102	<0.00612	<25.5	63.2	26.6	89.9	38.9
11.5	0 - 2.5	Sidewall North	1/27/2020	In-Situ	<0.00110	0.00141	<27.5	<27.5	<27.5	<27.5	18.8
11.6	0 - 2.5	Sidewall West	1/27/2020	In-Situ	<0.00149	<0.00895	<37.3	<37.3	<37.3	<37.3	15.1
11.7	2.5	Bottom	1/27/2020	Excavated	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	1,160
	4.1	Bottom	2/27/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	78.5
11.8	2.5	Bottom	1/27/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	72.9
11.9	2.5	Bottom	1/27/2020	In-Situ	<0.00103	<0.00618	<25.8	44.5	<25.8	44.5	9.27
11.10	2.5	Bottom	1/27/2020	Excavated	<0.00137	<0.00822	<34.2	86.6	43.5	130	92.3
	4.1	Bottom	2/27/2020	In-Situ	<0.00100	<0.00600	<25.8	<25.8	<25.8	<25.8	7.69
11.11	2.5	Bottom	1/27/2020	In-Situ	<0.00167	<0.01001	<41.7	54.9	<41.7	54.9	208
11.12	2.5	Bottom	1/27/2020	In-Situ	<0.00103	<0.00618	<25.8	59.4	27.4	86.8	522
11.13	2.5	Bottom	1/27/2020	Excavated	<0.00125	<0.00750	38.7	130	<31.2	169	848
	4.1	Bottom	2/27/2020	In-Situ	<0.00100	<0.00600	29.2	<26.9	<26.9	29.2	23.5
11.14	2.5	Bottom	1/27/2020	Excavated	<0.00108	<0.00647	<26.9	50.3	39.6	89.9	38.8
	4.1	Bottom	2/27/2020	In-Situ	<0.00100	<0.00600	<26.3	35.8	<26.3	35.8	26.8
11.15	2.5	Bottom	1/27/2020	Excavated	<0.00104	<0.00624	<26.0	96	71	166	60.7
	4.1	Bottom	2/27/2020	In-Situ	<0.00100	<0.00600	<26.3	<26.3	<26.3	<26.3	119
11.16	2.5	Bottom	1/27/2020	In-Situ	<0.00120	<0.00721	<30.1	49.1	<30.1	49.1	42.0
11.17	2.5	Bottom	1/27/2020	Excavated	<0.00112	<0.00673	<28.1	38.1	<28.1	38.1	34.4
	4.1	Bottom	2/27/2020	In-Situ	<0.00100	<0.00600	<27.2	<27.2	29.5	29.5	12.8
12.1	0 - 2.5	Sidewall North	1/31/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	6.14

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

12.2	0 - 3	Sidewall East	1/31/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	144.0
12.3	0 - 3	Sidewall West	1/31/2020	In-Situ	<0.00101	<0.00606	<25.3	25.9	<25.3	25.9	159
12.4	2.5	Bottom	1/31/2020	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	48.6
12.5	2.5	Bottom	1/31/2020	In-Situ	<0.00110	<0.00660	<27.5	<27.5	<27.5	<27.5	13.7
12.6	2.5	Bottom	1/31/2020	In-Situ	<0.00106	<0.00637	<26.6	28.3	<26.6	28.3	12.8
12.7	2.5	Bottom	1/31/2020	In-Situ	<0.00105	<0.00631	<26.3	26.6	<26.3	26.6	61.6
13.1	0 - 2.5	Sidewall North	1/31/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	12.6
13.2	0 - 2.5	Sidewall North	1/31/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	16.9
13.3	0 - 2.5	Sidewall South	1/31/2020	In-Situ	<0.00118	<0.00707	<29.4	<29.4	<29.4	<29.4	12.1
13.4	0 - 2.5	Sidewall South	1/31/2020	In-Situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	13.5
13.5	2.5	Bottom	1/31/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	47.9
13.6	2.5	Bottom	1/31/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	12.6
13.7	2.5	Bottom	1/31/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	19.5
13.8	2.5	Bottom	1/31/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	18.8
13.9	2.5	Bottom	1/31/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	27.3
15.1	0 - 4	Sidewall North	1/31/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	90.6
15.2	0 - 4	Sidewall South	1/31/2020	In-Situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	85.5
15.3	0 - 4	Sidewall West	1/31/2020	Excavated	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	1,400
	0 - 4	Sidewall West	2/26/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	32.4	32.4	169
15.4	5	Bottom	1/31/2020	In-Situ	<0.00108	<0.00647	<26.9	<26.9	<26.9	<26.9	3,790
15.5	5	Bottom	1/31/2020	In-Situ	<0.00114	<0.00683	<28.4	39.9	<28.4	39.9	678
15.6	5	Bottom	1/31/2020	In-Situ	<0.00110	<0.00660	<27.5	<27.5	<27.5	<27.5	17.5
17.1	0 - 3	Sidewall North	1/31/2020	In-Situ	<0.00100	<0.00600	<25.0	<25.0	<25.0	<25.0	9.41
17.2	0 - 3	Sidewall South	1/31/2020	In-Situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	9.48
17.3	3	Bottom	1/31/2020	Excavated	<0.00109	<0.00653	<27.2	<27.2	<27.2	<27.2	2,930
	5	Bottom	2/27/2020	In-Situ	<0.00105	<0.00631	27.6	56.7	<26.3	84.3	752
17.4	3	Bottom	1/31/2020	In-Situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	50.4
17.5	3	Bottom	1/31/2020	In-Situ	<0.00112	<0.00673	<28.1	<28.1	<28.1	<28.1	20.6
Backfill Caliche 1	--	--	3/16/2020	In-situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	162.0
**Backfill Caliche 2	--	--	3/16/2020	In-situ	<0.00102	<0.00612	25.5	<25.5	<25.5	25.5	2,100.0
**Backfill Caliche 3	--	--	3/16/2020	In-situ	<0.00101	<0.00606	<25.3	<25.3	<25.3	<25.3	884.0
Backfill Caliche 4	--	--	3/16/2020	In-situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	198.0
Backfill Caliche 5	--	--	3/16/2020	In-situ	<0.00102	<0.00612	<25.5	<25.5	<25.5	<25.5	548.0
Backfill Caliche 6	--	--	3/16/2020	In-situ	<0.00104	<0.00624	<26.0	<26.0	<26.0	<26.0	91.9
Backfill Caliche 7	--	--	3/16/2020	In-situ	<0.00103	<0.00618	<25.8	<25.8	<25.8	<25.8	166.0

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Dagger Lake 551H
Lea County, New Mexico
N 32.42950° W 103.60450°

Backfill Caliche 8	--	--	3/16/2020	In-situ	<0.00100	<0.00600	25.9	<25.0	<25.0	25.9	16.5
Backfill Caliche 9	--	--	3/31/2020	In-situ	<0.00100	<0.00600	28.5	47.2	<25.0	75.7	10.5
Backfill Caliche 10	--	--	3/31/2020	In-situ	<0.0101	<0.0606	<25.3	<25.3	<25.3	<25.3	16.5
Backfill Topsoil 1	--	--	3/16/2020	In-situ	<0.00109	<0.00653	29.4	<27.2	<27.2	29.4	33.7
Backfill Topsoil 2	--	--	3/16/2020	In-situ	<0.00111	<0.00666	<27.8	<27.8	<27.8	<27.8	15.90
Backfill Topsoil 3	--	--	3/16/2020	In-situ	<0.00109	<0.00653	<27.2	<27.2	<27.2	<27.2	9.59
Backfill Topsoil 4	--	--	3/16/2020	In-situ	<0.00111	<0.00666	31	<27.8	<27.8	31	15.0
Backfill Topsoil 5	--	--	3/16/2020	In-situ	<0.00106	<0.00637	<26.6	<26.6	<26.6	<26.6	9.57
Backfill Topsoil 6	--	--	3/16/2020	In-situ	<0.00106	<0.00637	26.8	<26.6	<26.6	26.8	8.34
Backfill Topsoil 7	--	--	3/16/2020	In-situ	<0.00106	<0.00637	27.2	<26.6	<26.6	27.2	10.9
Backfill Topsoil 8	--	--	3/16/2020	In-situ	<0.00106	<0.00637	27.5	<26.6	<26.6	27.5	8.53
Backfill Topsoil 9	--	--	3/16/2020	In-situ	<0.00109	<0.00653	<27.2	<27.2	<27.2	<27.2	9.03

Notes: Laboratory analysis performed by Permian Basin Environmental Lab (PBEL), Midland, Texas by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and Method 300 (chloride).

Depth in feet below ground surface (bgs)

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

Bold and highlighted indicates that analyte was detected above OCD remediation action levels

**Backfill material was marked as contaminated and not used

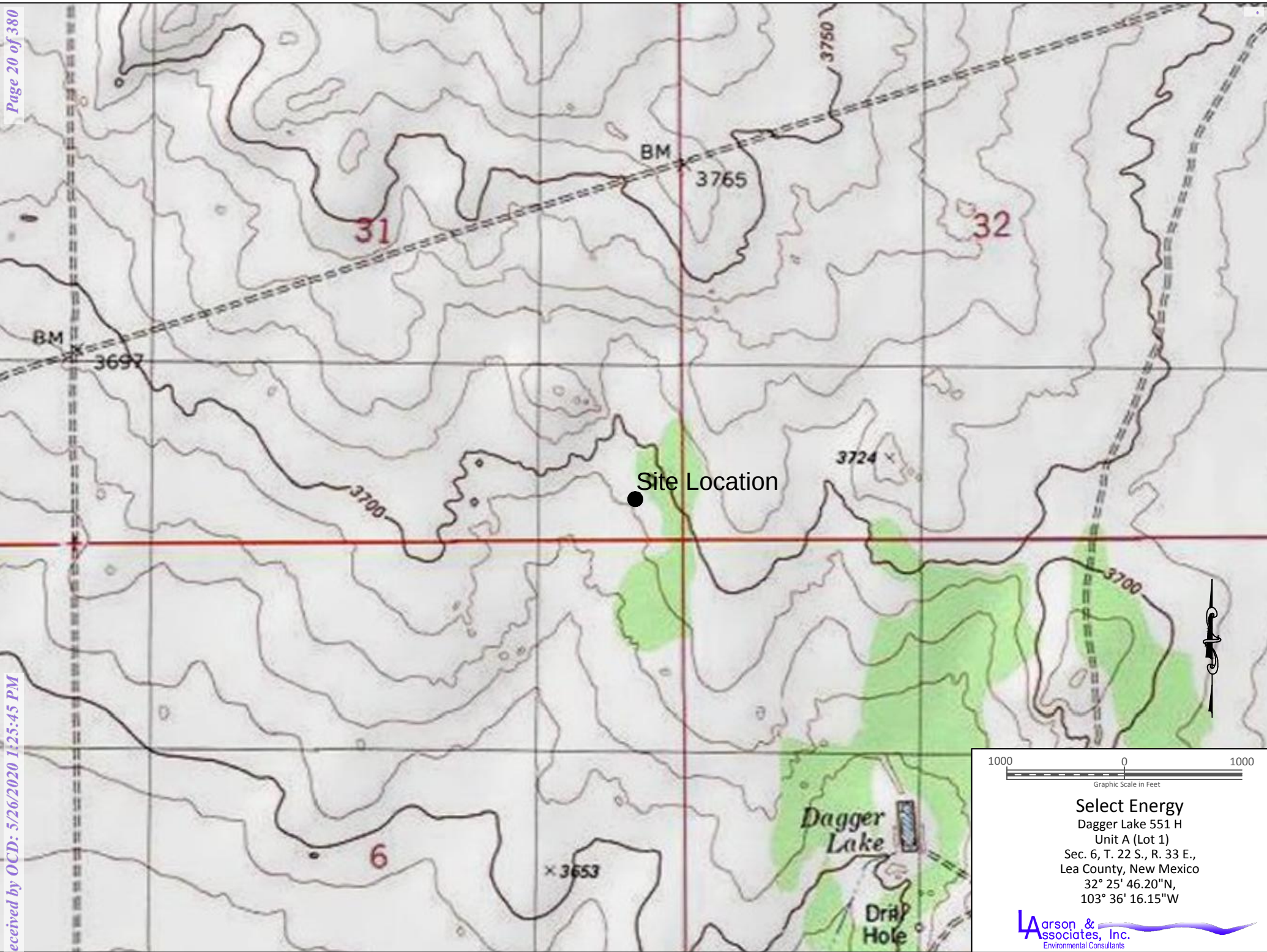
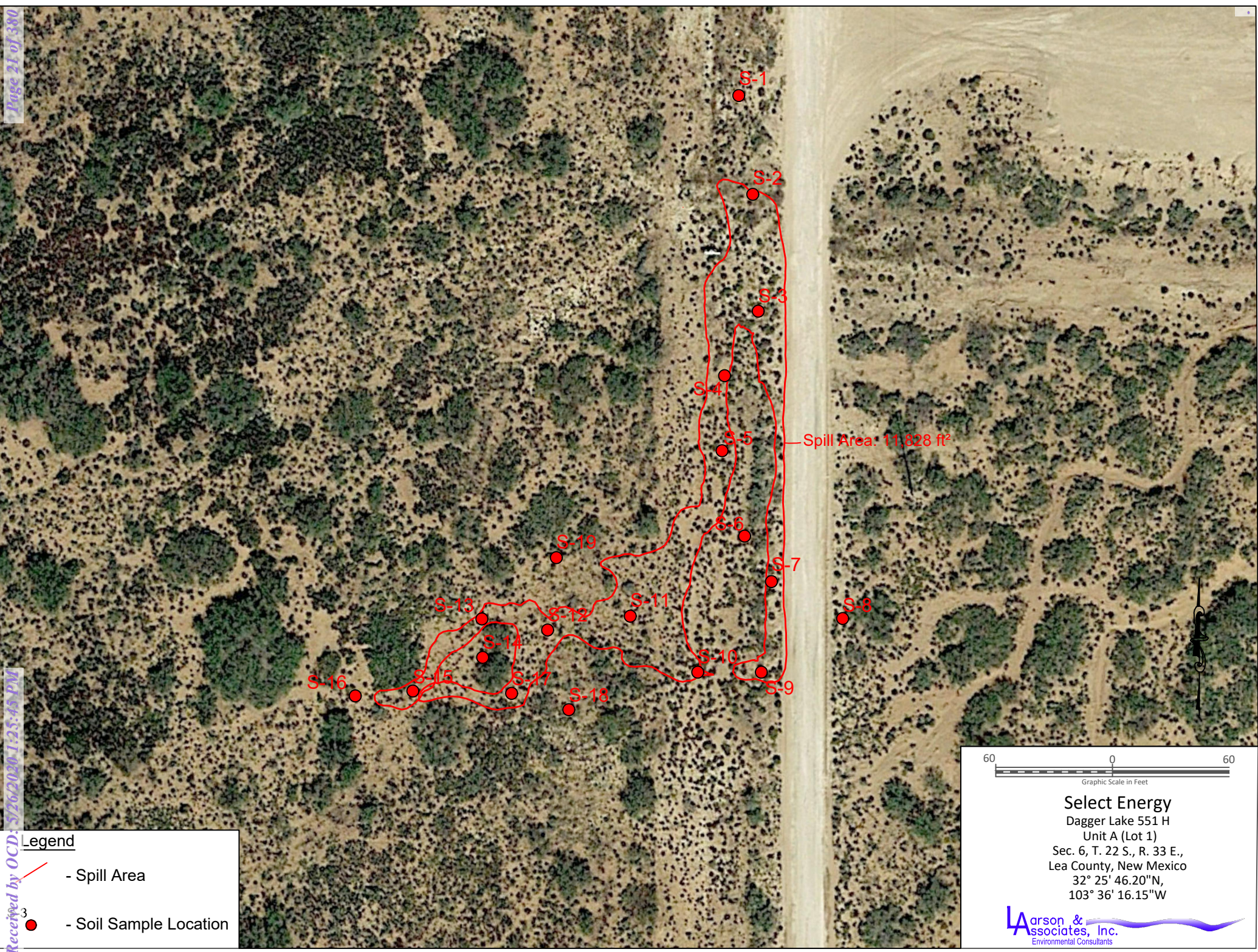


Figure 1 - Topographic Map



Legend

- Spill Area
- Soil Sample Location

60 0 60
Graphic Scale in Feet

Select Energy
Dagger Lake 551 H
Unit A (Lot 1)
Sec. 6, T. 22 S., R. 33 E.,
Lea County, New Mexico
32° 25' 46.20"N,
103° 36' 16.15"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map

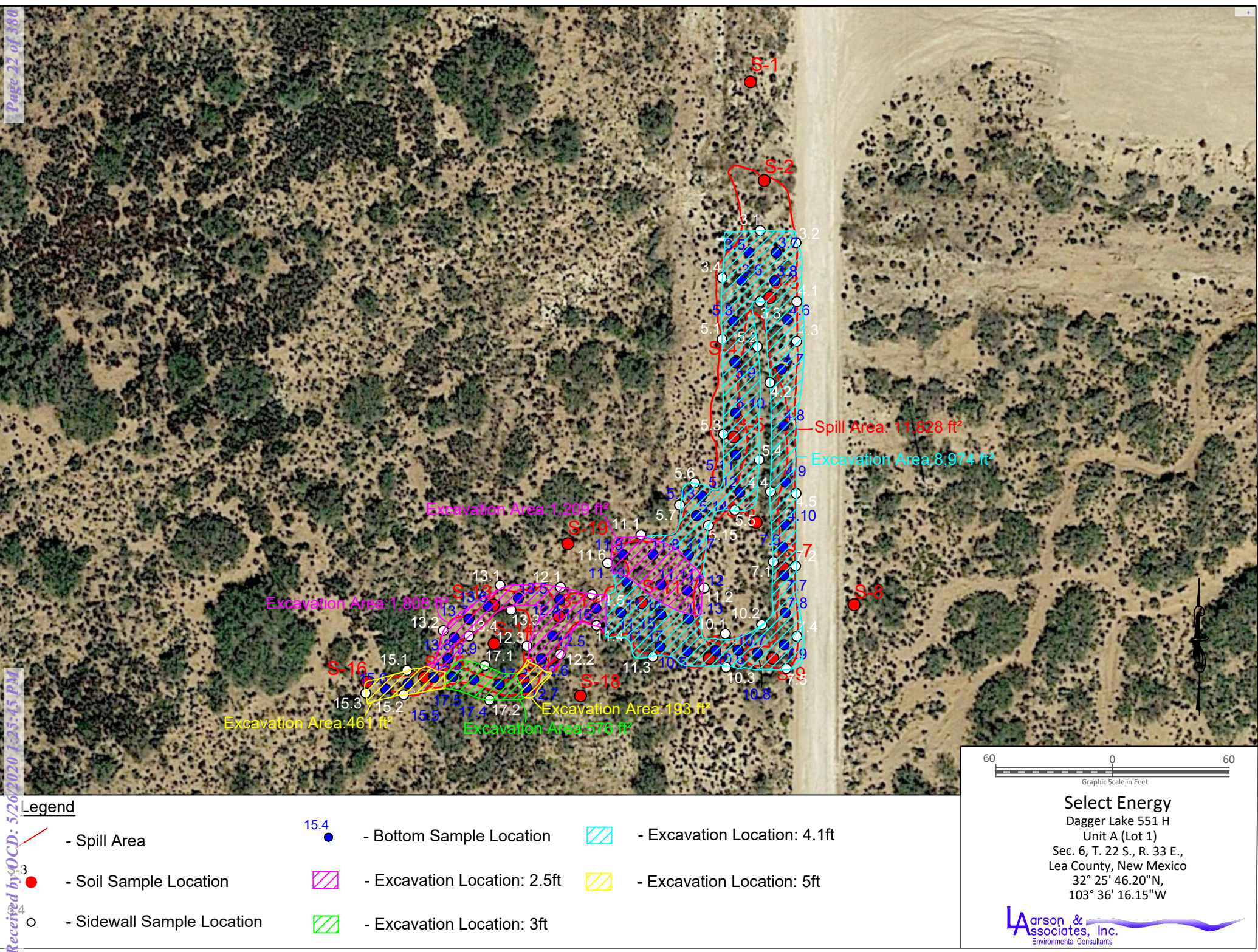


Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Samples

Appendix A
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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 9L20002



NELAP/TCEQ # T104704516-17-8

Report Date: 12/28/19

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 (0-0.5)	9L20002-01	Soil	12/19/19 11:51	12-20-2019 11:15
S-1 (0.5-1)	9L20002-02	Soil	12/19/19 11:54	12-20-2019 11:15
S-8 (0-0.5)	9L20002-03	Soil	12/19/19 11:58	12-20-2019 11:15
S-8 (0.5-1)	9L20002-04	Soil	12/19/19 12:00	12-20-2019 11:15
S-18 (0-0.5)	9L20002-05	Soil	12/19/19 12:04	12-20-2019 11:15
S-18 (0.5-1)	9L20002-06	Soil	12/19/19 12:07	12-20-2019 11:15
S-14 (0-0.5)	9L20002-07	Soil	12/19/19 12:10	12-20-2019 11:15
S-14 (0.5-1)	9L20002-08	Soil	12/19/19 12:12	12-20-2019 11:15
S-19 (0-0.5)	9L20002-09	Soil	12/19/19 12:15	12-20-2019 11:15
S-19 (0.5-1)	9L20002-10	Soil	12/19/19 12:18	12-20-2019 11:15
S-2 (0-1')	9L20002-11	Soil	12/19/19 12:20	12-20-2019 11:15
S-2 (2-3')	9L20002-12	Soil	12/19/19 12:28	12-20-2019 11:15
S-2 (3-4')	9L20002-13	Soil	12/19/19 12:31	12-20-2019 11:15
S-3 (0-1')	9L20002-14	Soil	12/19/19 12:35	12-20-2019 11:15
S-3 (2-3')	9L20002-15	Soil	12/19/19 12:40	12-20-2019 11:15
S-3 (3-4')	9L20002-16	Soil	12/19/19 12:43	12-20-2019 11:15
S-4 (0-1')	9L20002-17	Soil	12/19/19 12:50	12-20-2019 11:15
S-4 (2-3')	9L20002-18	Soil	12/19/19 12:55	12-20-2019 11:15
S-4 (3-4')	9L20002-19	Soil	12/19/19 12:58	12-20-2019 11:15
S-5 (0-1')	9L20002-20	Soil	12/19/19 13:00	12-20-2019 11:15
S-5 (2-3'))	9L20002-21	Soil	12/19/19 13:05	12-20-2019 11:15
S-5 (3-4')	9L20002-22	Soil	12/19/19 13:10	12-20-2019 11:15
S-6 (0-0.5')	9L20002-23	Soil	12/19/19 13:25	12-20-2019 11:15
S-6 (0.5-1)	9L20002-24	Soil	12/19/19 13:27	12-20-2019 11:15
S-7 (1-2')	9L20002-25	Soil	12/19/19 13:30	12-20-2019 11:15
S-7 (3-4')	9L20002-26	Soil	12/19/19 13:36	12-20-2019 11:15
S-9 (0.5-1)	9L20002-27	Soil	12/19/19 13:40	12-20-2019 11:15
S-9 (1-2')	9L20002-28	Soil	12/19/19 13:42	12-20-2019 11:15
S-10 (0.5-1)	9L20002-29	Soil	12/19/19 13:45	12-20-2019 11:15
S-10 (2-3')	9L20002-30	Soil	12/19/19 13:49	12-20-2019 11:15
S-10 (3-4')	9L20002-31	Soil	12/19/19 13:50	12-20-2019 11:15
S-11 (0-1')	9L20002-32	Soil	12/19/19 14:00	12-20-2019 11:15
S-11 (2-3')	9L20002-33	Soil	12/19/19 14:04	12-20-2019 11:15
S-11 (3-4')	9L20002-34	Soil	12/19/19 14:10	12-20-2019 11:15

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-12 (0-1')	9L20002-35	Soil	12/19/19 14:18	12-20-2019 11:15
S-12 (2-3')	9L20002-36	Soil	12/19/19 14:20	12-20-2019 11:15
S-12 (3-4')	9L20002-37	Soil	12/19/19 14:25	12-20-2019 11:15
S-13 (0-1')	9L20002-38	Soil	12/19/19 14:29	12-20-2019 11:15
S-13 (2-3')	9L20002-39	Soil	12/19/19 14:31	12-20-2019 11:15
S-13 (3-4')	9L20002-40	Soil	12/19/19 14:34	12-20-2019 11:15
S-15 (0-1')	9L20002-41	Soil	12/19/19 14:40	12-20-2019 11:15
S-15 (2-3')	9L20002-42	Soil	12/19/19 14:44	12-20-2019 11:15
S-15 (3-4')	9L20002-43	Soil	12/19/19 14:46	12-20-2019 11:15
S-16 (0-0.5')	9L20002-44	Soil	12/19/19 14:50	12-20-2019 11:15
S-16 (0.5-1)	9L20002-45	Soil	12/19/19 14:51	12-20-2019 11:15
S-17 (0-1')	9L20002-46	Soil	12/19/19 14:53	12-20-2019 11:15
S-17 (2-3')	9L20002-47	Soil	12/19/19 14:55	12-20-2019 11:15
S-17 (3-4')	9L20002-48	Soil	12/19/19 14:59	12-20-2019 11:15

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 (0-0.5)
9L20002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	60.1	1.03	mg/kg dry	1	P9L2311	12/23/19	12/26/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		99.7 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-1 (0.5-1)
9L20002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.4	1.05	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		90.5 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		98.8 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-8 (0-0.5)
9L20002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	91.6	1.02	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		93.0 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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S-8 (0.5-1)
9L20002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.3 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	73.1	1.01	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-18 (0-0.5)
9L20002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.51	1.03	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P9L2010	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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S-18 (0.5-1)
9L20002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P9L2201	12/22/19	12/22/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.59	1.05	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/20/19	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.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 (0-0.5)
9L20002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.72	1.04	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-14 (0.5-1)
9L20002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.1	1.05	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-19 (0-0.5)
9L20002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.16	1.01	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-19 (0.5-1)
9L20002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.78	1.02	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 (0-1')
9L20002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	43.1	1.03	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 (2-3')
9L20002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.6	1.04	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		98.7 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-2 (3-4')
9L20002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.5	1.03	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 (0-1')
9L20002-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3640	5.21	mg/kg dry	5	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/20/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 (2-3')
9L20002-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1240	1.06	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3 (3-4')
9L20002-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	83.3	1.04	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 (0-1')
9L20002-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3360	5.21	mg/kg dry	5	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 (2-3')
9L20002-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	168	1.08	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P9L2011	12/20/19	12/20/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/20/19	12/20/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4 (3-4')
9L20002-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	228	1.04	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 (0-1')
9L20002-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.9 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1520	1.14	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 (2-3'))
9L20002-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.1	1.04	mg/kg dry	1	P9L2312	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-5 (3-4')
9L20002-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	170	1.06	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/20/19	12/21/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 (0-0.5')
9L20002-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.5	1.02	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/20/19	12/21/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-6 (0.5-1)
9L20002-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	61.0	1.04	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 (1-2')
9L20002-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1320	1.04	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P9L2011	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-7 (3-4')
9L20002-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P9L2202	12/22/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2120	5.68	mg/kg dry	5	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 (0.5-1)
9L20002-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.8 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.2 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8640	11.0	mg/kg dry	10	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-9 (1-2')
9L20002-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1700	1.11	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 (0.5-1)
9L20002-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.6 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5360	10.5	mg/kg dry	10	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 (2-3')
9L20002-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2570	5.38	mg/kg dry	5	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10 (3-4')
9L20002-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	158	1.09	mg/kg dry	1	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 (0-1')
9L20002-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6540	10.8	mg/kg dry	10	P9L2313	12/23/19	12/26/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 (2-3')
9L20002-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.6 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	104	1.06	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11 (3-4')
9L20002-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.6 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.0 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	137	1.09	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 (0-1')
9L20002-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.3 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.1 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5720	10.6	mg/kg dry	10	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 (2-3')
9L20002-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	57.1	1.11	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-12 (3-4')
9L20002-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.8 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	145	1.16	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13 (0-1')
9L20002-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.9 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4940	5.26	mg/kg dry	5	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/21/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13 (2-3')
9L20002-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.2 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.6 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	220	1.04	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/20/19	12/21/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13 (3-4')
9L20002-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.9 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	174	1.05	mg/kg dry	1	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/20/19	12/21/19	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-15 (0-1')
9L20002-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	0.00156	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	0.00283	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.5 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.7 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9690	27.8	mg/kg dry	25	P9L2313	12/23/19	12/27/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-15 (2-3')
9L20002-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.2 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	52.0	1.09	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-15 (3-4')
9L20002-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1160	1.11	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		99.9 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-16 (0-0.5')
9L20002-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.3 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.1 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.5	1.02	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-16 (0.5-1)
9L20002-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.4	1.02	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P9L2012	12/20/19	12/21/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/20/19	12/21/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-17 (0-1')
9L20002-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P9L2306	12/23/19	12/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7160	10.5	mg/kg dry	10	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/24/19	12/24/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-17 (2-3')
9L20002-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P9L2307	12/23/19	12/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P9L2307	12/23/19	12/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.4	1.05	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: 1-Chlorooctane		91.5 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/24/19	12/24/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-17 (3-4')
9L20002-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9L2307	12/23/19	12/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9L2307	12/23/19	12/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P9L2307	12/23/19	12/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.3	1.08	mg/kg dry	1	P9L2314	12/23/19	12/27/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9L2301	12/23/19	12/23/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: 1-Chlorooctane		91.0 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P9L2402	12/24/19	12/24/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/24/19	12/24/19	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2201 - General Preparation (GC)

Blank (P9L2201-BLK1)

Prepared & Analyzed: 12/22/19

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	0.117		"	0.120		97.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			

LCS (P9L2201-BS1)

Prepared & Analyzed: 12/22/19

Benzene	0.0979	0.00100	mg/kg wet	0.100		97.9	70-130			
Toluene	0.118	0.00100	"	0.100		118	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.237	0.00200	"	0.200		118	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	75-125			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			

LCS Dup (P9L2201-BSD1)

Prepared & Analyzed: 12/22/19

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	7.67	20	
Toluene	0.117	0.00100	"	0.100		117	70-130	0.729	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	5.82	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130	0.316	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	3.24	20	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

Calibration Blank (P9L2201-CCB1)

Prepared & Analyzed: 12/22/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2201 - General Preparation (GC)

Calibration Blank (P9L2201-CCB2)

Prepared & Analyzed: 12/22/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		109	75-125			

Calibration Blank (P9L2201-CCB3)

Prepared & Analyzed: 12/22/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P9L2201-CCV1)

Prepared & Analyzed: 12/22/19

Benzene	0.0986	0.00100	mg/kg wet	0.100		98.6	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			

Calibration Check (P9L2201-CCV2)

Prepared & Analyzed: 12/22/19

Benzene	0.0975	0.00100	mg/kg wet	0.100		97.5	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2201 - General Preparation (GC)

Calibration Check (P9L2201-CCV3)

Prepared & Analyzed: 12/22/19

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	75-125			

Matrix Spike (P9L2201-MS1)

Source: 9L20007-01

Prepared & Analyzed: 12/22/19

Benzene	0.0864	0.00101	mg/kg dry	0.101	ND	85.5	80-120			
Toluene	0.100	0.00101	"	0.101	ND	99.1	80-120			
Ethylbenzene	0.116	0.00101	"	0.101	ND	115	80-120			
Xylene (p/m)	0.198	0.00202	"	0.202	ND	97.9	80-120			
Xylene (o)	0.0932	0.00101	"	0.101	ND	92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.121		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.121		112	75-125			

Matrix Spike Dup (P9L2201-MSD1)

Source: 9L20007-01

Prepared & Analyzed: 12/22/19

Benzene	0.0874	0.00101	mg/kg dry	0.101	ND	86.5	80-120	1.15	20	
Toluene	0.103	0.00101	"	0.101	ND	102	80-120	3.06	20	
Ethylbenzene	0.120	0.00101	"	0.101	ND	119	80-120	3.61	20	
Xylene (p/m)	0.207	0.00202	"	0.202	ND	102	80-120	4.54	20	
Xylene (o)	0.106	0.00101	"	0.101	ND	105	80-120	12.7	20	
Surrogate: 4-Bromofluorobenzene	0.139		"	0.121		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.121		112	75-125			

Batch P9L2202 - General Preparation (GC)

Blank (P9L2202-BLK1)

Prepared: 12/22/19 Analyzed: 12/23/19

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	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			

Permian Basin Environmental Lab, L.P.

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2202 - General Preparation (GC)

LCS (P9L2202-BS1)

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.120	0.00100	"	0.100		120	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		118	75-125			

LCS Dup (P9L2202-BSD1)

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130	6.30	20	
Toluene	0.120	0.00100	"	0.100		120	70-130	0.134	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	70-130	6.59	20	
Xylene (p/m)	0.239	0.00200	"	0.200		119	70-130	0.0587	20	
Xylene (o)	0.114	0.00100	"	0.100		114	70-130	1.14	20	
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			

Calibration Blank (P9L2202-CCB1)

Prepared & Analyzed: 12/22/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	75-125			

Calibration Blank (P9L2202-CCB2)

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2202 - General Preparation (GC)

Calibration Check (P9L2202-CCV1)

Prepared & Analyzed: 12/22/19

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			

Calibration Check (P9L2202-CCV2)

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.0995	0.00100	mg/kg wet	0.100		99.5	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.120		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	75-125			

Calibration Check (P9L2202-CCV3)

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.120	0.00100	"	0.100		120	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.135		"	0.120		112	75-125			

Matrix Spike (P9L2202-MS1)

Source: 9L20002-07

Prepared: 12/22/19 Analyzed: 12/23/19

Benzene	0.0690	0.00104	mg/kg dry	0.104	ND	66.2	80-120			QM-07
Toluene	0.0760	0.00104	"	0.104	ND	72.9	80-120			QM-07
Ethylbenzene	0.0908	0.00104	"	0.104	ND	87.1	80-120			
Xylene (p/m)	0.157	0.00208	"	0.208	ND	75.5	80-120			QM-07
Xylene (o)	0.0789	0.00104	"	0.104	ND	75.8	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.142		"	0.125		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.125		107	75-125			

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Project Number: 19-0179-07
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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2202 - General Preparation (GC)

Matrix Spike Dup (P9L2202-MSD1)		Source: 9L20002-07		Prepared: 12/22/19		Analyzed: 12/23/19				
Benzene	0.0808	0.00104	mg/kg dry	0.104	ND	77.6	80-120	15.8	20	QM-07
Toluene	0.0900	0.00104	"	0.104	ND	86.4	80-120	17.0	20	
Ethylbenzene	0.109	0.00104	"	0.104	ND	105	80-120	18.6	20	
Xylene (p/m)	0.188	0.00208	"	0.208	ND	90.2	80-120	17.8	20	
Xylene (o)	0.0933	0.00104	"	0.104	ND	89.5	80-120	16.6	20	
Surrogate: 1,4-Difluorobenzene	0.144		"	0.125		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.125		120	75-125			

Batch P9L2306 - General Preparation (GC)

Blank (P9L2306-BLK1)				Prepared & Analyzed: 12/23/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	75-125			

LCS (P9L2306-BS1)				Prepared & Analyzed: 12/23/19						
Benzene	0.0950	0.00100	mg/kg wet	0.100		95.0	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.109	0.00200	"	0.100		109	80-120			
Xylene (p/m)	0.220	0.00100	"	0.200		110	80-120			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

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Project: Dagger Lake 551H
Project Number: 19-0179-07
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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2306 - General Preparation (GC)

LCS Dup (P9L2306-BSD1)

Prepared & Analyzed: 12/23/19

Benzene	0.0997	0.00100	mg/kg wet	0.100		99.7	80-120	4.80	20	
Toluene	0.108	0.00100	"	0.100		108	80-120	4.01	20	
Ethylbenzene	0.113	0.00200	"	0.100		113	80-120	3.88	20	
Xylene (p/m)	0.221	0.00100	"	0.200		110	80-120	0.290	20	
Xylene (o)	0.0989	0.00100	"	0.100		98.9	80-120	1.16	20	
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Calibration Blank (P9L2306-CCB1)

Prepared & Analyzed: 12/23/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	75-125			

Calibration Blank (P9L2306-CCB2)

Prepared & Analyzed: 12/23/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	75-125			

Calibration Blank (P9L2306-CCB3)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	75-125			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2306 - General Preparation (GC)

Calibration Check (P9L2306-CCV1)

Prepared & Analyzed: 12/23/19

Benzene	0.0952	0.00100	mg/kg wet	0.100		95.2	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.102	0.00200	"	0.100		102	80-120			
Xylene (p/m)	0.220	0.00100	"	0.200		110	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			

Calibration Check (P9L2306-CCV2)

Prepared & Analyzed: 12/23/19

Benzene	0.0937	0.00100	mg/kg wet	0.100		93.7	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.0971	0.00200	"	0.100		97.1	80-120			
Xylene (p/m)	0.207	0.00100	"	0.200		103	80-120			
Xylene (o)	0.0999	0.00100	"	0.100		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

Calibration Check (P9L2306-CCV3)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.105	0.00200	"	0.100		105	80-120			
Xylene (p/m)	0.222	0.00100	"	0.200		111	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

Matrix Spike (P9L2306-MS1)

Source: 9L20002-27

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.0868	0.00100	mg/kg dry	0.110	ND	79.0	80-120			QM-07
Toluene	0.101	0.00100	"	0.110	ND	91.6	80-120			
Ethylbenzene	0.110	0.00200	"	0.110	ND	99.8	80-120			
Xylene (p/m)	0.188	0.00100	"	0.220	ND	85.7	80-120			
Xylene (o)	0.0816	0.00100	"	0.110	ND	74.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.138		"	0.132		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.132		102	75-125			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2306 - General Preparation (GC)

Matrix Spike Dup (P9L2306-MSD1)		Source: 9L20002-27		Prepared: 12/23/19		Analyzed: 12/24/19				
Benzene	0.0874	0.00100	mg/kg dry	0.110	ND	79.5	80-120	0.631	20	QM-07
Toluene	0.0973	0.00100	"	0.110	ND	88.5	80-120	3.41	20	
Ethylbenzene	0.107	0.00200	"	0.110	ND	97.4	80-120	2.45	20	
Xylene (p/m)	0.185	0.00100	"	0.220	ND	84.2	80-120	1.74	20	
Xylene (o)	0.0878	0.00100	"	0.110	ND	79.9	80-120	7.36	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.136		"	0.132		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.132		102	75-125			

Batch P9L2307 - General Preparation (GC)

Blank (P9L2307-BLK1)				Prepared: 12/23/19		Analyzed: 12/24/19				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.7	75-125			

LCS (P9L2307-BS1)				Prepared: 12/23/19		Analyzed: 12/24/19				
Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.110	0.00200	"	0.100		110	80-120			
Xylene (p/m)	0.227	0.00100	"	0.200		114	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2307 - General Preparation (GC)

LCS Dup (P9L2307-BSD1)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120	4.74	20	
Toluene	0.119	0.00100	"	0.100		119	80-120	5.89	20	
Ethylbenzene	0.110	0.00200	"	0.100		110	80-120	0.782	20	
Xylene (p/m)	0.234	0.00100	"	0.200		117	80-120	2.91	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	1.61	20	
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Blank (P9L2307-CCB1)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	75-125			

Calibration Blank (P9L2307-CCB2)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	75-125			

Calibration Check (P9L2307-CCV1)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.105	0.00200	"	0.100		105	80-120			
Xylene (p/m)	0.222	0.00100	"	0.200		111	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

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Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9L2307 - General Preparation (GC)

Calibration Check (P9L2307-CCV2)

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.0929	0.00100	mg/kg wet	0.100		92.9	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.0969	0.00200	"	0.100		96.9	80-120			
Xylene (p/m)	0.203	0.00100	"	0.200		101	80-120			
Xylene (o)	0.0948	0.00100	"	0.100		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			

Matrix Spike (P9L2307-MS1)

Source: 9L20002-47

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.0700	0.00100	mg/kg dry	0.105	ND	66.5	80-120			QM-07
Toluene	0.0668	0.00100	"	0.105	ND	63.4	80-120			QM-07
Ethylbenzene	0.0706	0.00200	"	0.105	ND	67.1	80-120			QM-07
Xylene (p/m)	0.125	0.00100	"	0.211	ND	59.3	80-120			QM-07
Xylene (o)	0.0569	0.00100	"	0.105	ND	54.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.122		"	0.126		96.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.126		97.6	75-125			

Matrix Spike Dup (P9L2307-MSD1)

Source: 9L20002-47

Prepared: 12/23/19 Analyzed: 12/24/19

Benzene	0.0747	0.00100	mg/kg dry	0.105	ND	70.9	80-120	6.41	20	QM-07
Toluene	0.0742	0.00100	"	0.105	ND	70.5	80-120	10.6	20	QM-07
Ethylbenzene	0.0765	0.00200	"	0.105	ND	72.7	80-120	8.03	20	QM-07
Xylene (p/m)	0.132	0.00100	"	0.211	ND	62.8	80-120	5.80	20	QM-07
Xylene (o)	0.0581	0.00100	"	0.105	ND	55.1	80-120	2.09	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.134		"	0.126		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.126		106	75-125			

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P9L2301 - * DEFAULT PREP *****

Blank (P9L2301-BLK1)		Prepared & Analyzed: 12/23/19							
% Moisture	ND	0.1	%						
Duplicate (P9L2301-DUP1)		Source: 9L20002-26		Prepared & Analyzed: 12/23/19					
% Moisture	12.0	0.1	%		12.0			0.00	20
Duplicate (P9L2301-DUP2)		Source: 9L20003-03		Prepared & Analyzed: 12/23/19					
% Moisture	13.0	0.1	%		13.0			0.00	20
Duplicate (P9L2301-DUP3)		Source: 9L20007-11		Prepared & Analyzed: 12/23/19					
% Moisture	1.0	0.1	%		1.0			0.00	20

Batch P9L2311 - * DEFAULT PREP *****

Blank (P9L2311-BLK1)		Prepared & Analyzed: 12/23/19							
Chloride	ND	1.00	mg/kg wet						
LCS (P9L2311-BS1)		Prepared & Analyzed: 12/23/19							
Chloride	408	1.00	mg/kg wet	400		102	80-120		
LCS Dup (P9L2311-BSD1)		Prepared & Analyzed: 12/23/19							
Chloride	406	1.00	mg/kg wet	400		102	80-120	0.339	20
Calibration Blank (P9L2311-CCB1)		Prepared & Analyzed: 12/23/19							
Chloride	0.00		mg/kg wet						
Calibration Blank (P9L2311-CCB2)		Prepared: 12/23/19 Analyzed: 12/24/19							
Chloride	0.00		mg/kg wet						

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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 P9L2311 - *** DEFAULT PREP ***										
Calibration Check (P9L2311-CCV1)				Prepared & Analyzed: 12/23/19						
Chloride	20.2		mg/kg	20.0		101	0-200			
Calibration Check (P9L2311-CCV2)				Prepared: 12/23/19 Analyzed: 12/24/19						
Chloride	20.3		mg/kg	20.0		102	0-200			
Calibration Check (P9L2311-CCV3)				Prepared: 12/23/19 Analyzed: 12/26/19						
Chloride	21.6		mg/kg	20.0		108	0-200			
Matrix Spike (P9L2311-MS1)				Source: 9L05012-05		Prepared: 12/23/19 Analyzed: 12/24/19				
Chloride	672	1.11	mg/kg dry	556	126	98.3	80-120			
Matrix Spike (P9L2311-MS2)				Source: 9L06023-03		Prepared: 12/23/19 Analyzed: 12/24/19				
Chloride	11500	30.1	mg/kg dry	3010	9120	79.2	80-120			
Matrix Spike Dup (P9L2311-MSD1)				Source: 9L05012-05		Prepared: 12/23/19 Analyzed: 12/24/19				
Chloride	638	1.11	mg/kg dry	556	126	92.1	80-120	5.20	20	
Matrix Spike Dup (P9L2311-MSD2)				Source: 9L06023-03		Prepared: 12/23/19 Analyzed: 12/26/19				
Chloride	11500	30.1	mg/kg dry	3010	9120	77.5	80-120	0.436	20	
Batch P9L2312 - *** DEFAULT PREP ***										
Blank (P9L2312-BLK1)				Prepared: 12/23/19 Analyzed: 12/26/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9L2312-BS1)				Prepared: 12/23/19 Analyzed: 12/26/19						
Chloride	422	1.00	mg/kg wet	400		106	80-120			

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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
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Batch P9L2312 - * DEFAULT PREP *****

LCS Dup (P9L2312-BSD1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	421	1.00	mg/kg wet	400	105	80-120	0.330	20
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Calibration Blank (P9L2312-CCB1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	0.00		mg/kg wet					
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Calibration Blank (P9L2312-CCB2)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	0.00		mg/kg wet					
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Calibration Check (P9L2312-CCV1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	21.6		mg/kg	20.0	108	0-200		
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Calibration Check (P9L2312-CCV2)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	21.5		mg/kg	20.0	108	0-200		
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Calibration Check (P9L2312-CCV3)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	22.0		mg/kg	20.0	110	0-200		
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Matrix Spike (P9L2312-MS1)

Source: 9L20002-02

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	543	1.05	mg/kg dry	526	38.4	95.8	80-120	
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Matrix Spike (P9L2312-MS2)

Source: 9L20002-12

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	539	1.04	mg/kg dry	521	28.6	98.0	80-120	
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Matrix Spike Dup (P9L2312-MSD1)

Source: 9L20002-02

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	534	1.05	mg/kg dry	526	38.4	94.2	80-120	1.61	20
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Matrix Spike Dup (P9L2312-MSD2)

Source: 9L20002-12

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	527	1.04	mg/kg dry	521	28.6	95.7	80-120	2.16	20
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Project Number: 19-0179-07
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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
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Batch P9L2313 - * DEFAULT PREP *****

Blank (P9L2313-BLK1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	ND	1.00	mg/kg wet							
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LCS (P9L2313-BS1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	435	1.00	mg/kg wet	400		109	80-120			
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LCS Dup (P9L2313-BSD1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	439	1.00	mg/kg wet	400		110	80-120	0.858	20	
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Calibration Blank (P9L2313-CCB1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	0.00		mg/kg wet							
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Calibration Blank (P9L2313-CCB2)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	0.00		mg/kg wet							
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Calibration Check (P9L2313-CCV1)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	22.0		mg/kg	20.0		110	0-200			
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Calibration Check (P9L2313-CCV2)

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	21.9		mg/kg	20.0		109	0-200			
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Calibration Check (P9L2313-CCV3)

Prepared: 12/23/19 Analyzed: 12/27/19

Chloride	21.4		mg/kg	20.0		107	0-200			
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Matrix Spike (P9L2313-MS1)

Source: 9L20002-22

Prepared: 12/23/19 Analyzed: 12/26/19

Chloride	721	1.06	mg/kg dry	532	170	104	80-120			
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Matrix Spike (P9L2313-MS2)

Source: 9L20002-32

Prepared: 12/23/19 Analyzed: 12/27/19

Chloride	7700	10.8	mg/kg dry	1080	6540	107	80-120			
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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 P9L2313 - *** DEFAULT PREP ***										
Matrix Spike Dup (P9L2313-MSD1)	Source: 9L20002-22			Prepared: 12/23/19 Analyzed: 12/26/19						
Chloride	666	1.06	mg/kg dry	532	170	93.3	80-120	7.93	20	
Matrix Spike Dup (P9L2313-MSD2)	Source: 9L20002-32			Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	7690	10.8	mg/kg dry	1080	6540	107	80-120	0.0391	20	
Batch P9L2314 - *** DEFAULT PREP ***										
Blank (P9L2314-BLK1)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9L2314-BS1)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	449	1.00	mg/kg wet	400		112	80-120			
LCS Dup (P9L2314-BSD1)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	446	1.00	mg/kg wet	400		111	80-120	0.745	20	
Calibration Blank (P9L2314-CCB1)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9L2314-CCV1)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	21.4		mg/kg	20.0		107	0-200			
Calibration Check (P9L2314-CCV2)				Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	21.6		mg/kg	20.0		108	0-200			
Matrix Spike (P9L2314-MS1)	Source: 9L20002-42			Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	573	1.09	mg/kg dry	543	52.0	95.9	80-120			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710	Project Manager: Mark Larson	

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
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Batch P9L2314 - *** DEFAULT PREP ***

Matrix Spike Dup (P9L2314-MSD1)	Source: 9L20002-42			Prepared: 12/23/19 Analyzed: 12/27/19						
Chloride	552	1.09	mg/kg dry	543	52.0	92.0	80-120	3.71	20	

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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
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Batch P9L2010 - TX 1005

Blank (P9L2010-BLK1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

LCS (P9L2010-BS1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

LCS Dup (P9L2010-BSD1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	782	25.0	mg/kg wet	1000		78.2	75-125	5.67	20	
>C12-C28	1110	25.0	"	1000		111	75-125	4.91	20	
Surrogate: 1-Chlorooctane	93.4		"	100		93.4	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

Calibration Blank (P9L2010-CCB1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	11.8		mg/kg wet							
>C12-C28	16.7		"							
Surrogate: 1-Chlorooctane	91.8		"	100		91.8	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.7	70-130			

Calibration Blank (P9L2010-CCB2)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	13.7		mg/kg wet							
>C12-C28	17.4		"							
Surrogate: 1-Chlorooctane	98.9		"	100		98.9	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P9L2010 - TX 1005

Calibration Check (P9L2010-CCV1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	454	25.0	mg/kg wet	500		90.7	85-115			
>C12-C28	441	25.0	"	500		88.3	85-115			
Surrogate: 1-Chlorooctane	93.6		"	100		93.6	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.8	70-130			

Calibration Check (P9L2010-CCV2)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	454	25.0	mg/kg wet	500		90.7	85-115			
>C12-C28	461	25.0	"	500		92.1	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			

Calibration Check (P9L2010-CCV3)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	468	25.0	mg/kg wet	500		93.5	85-115			
>C12-C28	454	25.0	"	500		90.7	85-115			
Surrogate: 1-Chlorooctane	93.5		"	100		93.5	70-130			
Surrogate: o-Terphenyl	45.7		"	50.0		91.4	70-130			

Matrix Spike (P9L2010-MS1)

Source: 9L20002-05

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	803	25.8	mg/kg dry	1030	15.3	76.4	75-125			
>C12-C28	1140	25.8	"	1030	20.1	108	75-125			
Surrogate: 1-Chlorooctane	112		"	103		109	70-130			
Surrogate: o-Terphenyl	51.5		"	51.5		99.8	70-130			

Matrix Spike Dup (P9L2010-MSD1)

Source: 9L20002-05

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	787	25.8	mg/kg dry	1030	15.3	74.8	75-125	2.10	20	QM-07
>C12-C28	1100	25.8	"	1030	20.1	105	75-125	3.40	20	
Surrogate: 1-Chlorooctane	99.0		"	103		96.0	70-130			
Surrogate: o-Terphenyl	49.2		"	51.5		95.5	70-130			

Permian Basin Environmental Lab, L.P.

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

Page 70 of 81

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P9L2011 - TX 1005

Blank (P9L2011-BLK1)

Prepared & Analyzed: 12/20/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

LCS (P9L2011-BS1)

Prepared & Analyzed: 12/20/19

C6-C12	1170	25.0	mg/kg wet	1000		117	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

LCS Dup (P9L2011-BSD1)

Prepared & Analyzed: 12/20/19

C6-C12	1110	25.0	mg/kg wet	1000		111	75-125	4.80	20	
>C12-C28	1190	25.0	"	1000		119	75-125	6.62	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.8	70-130			

Calibration Blank (P9L2011-CCB1)

Prepared & Analyzed: 12/20/19

C6-C12	19.9		mg/kg wet							
>C12-C28	12.0		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	59.2		"	50.0		118	70-130			

Calibration Blank (P9L2011-CCB2)

Prepared & Analyzed: 12/20/19

C6-C12	22.5		mg/kg wet							
>C12-C28	4.85		"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

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Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P9L2011 - TX 1005

Calibration Check (P9L2011-CCV1)

Prepared & Analyzed: 12/20/19

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	58.0		"	50.0		116	70-130			

Calibration Check (P9L2011-CCV2)

Prepared & Analyzed: 12/20/19

C6-C12	485	25.0	mg/kg wet	500		97.0	85-115			
>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Matrix Spike (P9L2011-MS1)

Source: 9L20002-25

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	1150	26.0	mg/kg dry	1040	21.4	109	75-125			
>C12-C28	1240	26.0	"	1040	ND	119	75-125			
Surrogate: 1-Chlorooctane	118		"	104		113	70-130			
Surrogate: o-Terphenyl	52.9		"	52.1		102	70-130			

Matrix Spike Dup (P9L2011-MSD1)

Source: 9L20002-25

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	1200	26.0	mg/kg dry	1040	21.4	113	75-125	4.10	20	
>C12-C28	1200	26.0	"	1040	ND	115	75-125	3.09	20	
Surrogate: 1-Chlorooctane	122		"	104		118	70-130			
Surrogate: o-Terphenyl	57.1		"	52.1		110	70-130			

Batch P9L2012 - TX 1005

LCS (P9L2012-BS1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	1100	25.0	mg/kg wet	1000		110	75-125			
>C12-C28	1220	25.0	"	1000		122	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	55.1		"	50.0		110	70-130			

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P9L2012 - TX 1005

LCS Dup (P9L2012-BSD1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	1080	25.0	mg/kg wet	1000		108	75-125	1.99	20	
>C12-C28	1080	25.0	"	1000		108	75-125	11.9	20	
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			

Calibration Blank (P9L2012-CCB1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	21.6		mg/kg wet							
>C12-C28	3.65		"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	52.9		"	50.0		106	70-130			

Calibration Blank (P9L2012-CCB2)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	20.5		mg/kg wet							
>C12-C28	8.08		"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

Calibration Check (P9L2012-CCV1)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	435	25.0	mg/kg wet	500		87.1	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.2	70-130			

Calibration Check (P9L2012-CCV2)

Prepared: 12/20/19 Analyzed: 12/21/19

C6-C12	429	25.0	mg/kg wet	500		85.9	85-115			
>C12-C28	502	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.2	70-130			

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Project Number: 19-0179-07
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 P9L2012 - TX 1005

Matrix Spike (P9L2012-MS1)	Source: 9L20002-45			Prepared: 12/20/19		Analyzed: 12/21/19				
C6-C12	1160	25.5	mg/kg dry	1020	20.7	112	75-125			
>C12-C28	1220	25.5	"	1020	ND	119	75-125			
Surrogate: 1-Chlorooctane	117		"	102		114	70-130			
Surrogate: o-Terphenyl	58.3		"	51.0		114	70-130			

Matrix Spike Dup (P9L2012-MSD1)	Source: 9L20002-45			Prepared: 12/20/19		Analyzed: 12/21/19				
C6-C12	1140	25.5	mg/kg dry	1020	20.7	110	75-125	1.68	20	
>C12-C28	1090	25.5	"	1020	ND	107	75-125	10.7	20	
Surrogate: 1-Chlorooctane	109		"	102		107	70-130			
Surrogate: o-Terphenyl	51.6		"	51.0		101	70-130			

Batch P9L2402 - TX 1005

Blank (P9L2402-BLK1)	Prepared & Analyzed: 12/24/19									
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.6		"	100		93.6	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

LCS (P9L2402-BS1)	Prepared & Analyzed: 12/24/19									
C6-C12	812	25.0	mg/kg wet	1000		81.2	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

LCS Dup (P9L2402-BSD1)	Prepared & Analyzed: 12/24/19									
C6-C12	842	25.0	mg/kg wet	1000		84.2	75-125	3.68	20	
>C12-C28	1140	25.0	"	1000		114	75-125	1.14	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			

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Project Number: 19-0179-07
Project Manager: Mark Larson

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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 P9L2402 - TX 1005

Calibration Blank (P9L2402-CCB1)

Prepared & Analyzed: 12/24/19

C6-C12	16.8		mg/kg wet							
>C12-C28	12.5		"							
Surrogate: 1-Chlorooctane	86.0		"	100		86.0	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.1	70-130			

Calibration Blank (P9L2402-CCB2)

Prepared & Analyzed: 12/24/19

C6-C12	15.0		mg/kg wet							
>C12-C28	12.7		"							
Surrogate: 1-Chlorooctane	80.9		"	100		80.9	70-130			
Surrogate: o-Terphenyl	46.1		"	50.0		92.2	70-130			

Calibration Check (P9L2402-CCV1)

Prepared & Analyzed: 12/24/19

C6-C12	453	25.0	mg/kg wet	500		90.6	85-115			
>C12-C28	451	25.0	"	500		90.1	85-115			
Surrogate: 1-Chlorooctane	88.1		"	100		88.1	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		87.0	70-130			

Calibration Check (P9L2402-CCV2)

Prepared & Analyzed: 12/24/19

C6-C12	479	25.0	mg/kg wet	500		95.9	85-115			
>C12-C28	465	25.0	"	500		93.0	85-115			
Surrogate: 1-Chlorooctane	81.9		"	100		81.9	70-130			
Surrogate: o-Terphenyl	40.3		"	50.0		80.6	70-130			

Matrix Spike (P9L2402-MS1)

Source: 9L20010-02

Prepared & Analyzed: 12/24/19

C6-C12	816	25.8	mg/kg dry	1030	17.5	77.4	75-125			
>C12-C28	1260	25.8	"	1030	477	76.1	75-125			
Surrogate: 1-Chlorooctane	113		"	103		109	70-130			
Surrogate: o-Terphenyl	50.8		"	51.5		98.6	70-130			

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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 P9L2402 - TX 1005

Matrix Spike Dup (P9L2402-MSD1)		Source: 9L20010-02			Prepared & Analyzed: 12/24/19					
C6-C12	795	25.8	mg/kg dry	1030	17.5	75.4	75-125	2.70	20	
>C12-C28	1160	25.8	"	1030	477	65.9	75-125	14.4	20	QM-07
Surrogate: 1-Chlorooctane	109		"	103		106	70-130			
Surrogate: o-Terphenyl	49.2		"	51.5		95.4	70-130			

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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.

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: 12/28/2019

Brent Barron, Laboratory Director/Technical Director

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.

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

DATE: 12-20-2019
 PO#:
 PROJECT LOCATION OR NAME: Daggel Lake 551H
 LAI PROJECT #: 19-0179-01
 COLLECTOR: PD
 LAB WORK ORDER#: 91200002
 PAGE 1

CHAIN-OF-CUSTODY PAGE 1 OF 4

0926 N₀

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Varson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 12-20-2019 PAGE 2 OF 4
PO#: LAB WORK ORDER# 9120002
PROJECT LOCATION OR NAME: Dogger Lake 551H
LAI PROJECT #: 19-0179-07 COLLECTOR: RD

CHAIN-OF-CUSTODY

№ 0927

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TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		PRESERVATION		ANALYSES		FIELD NOTES	
Yes ☐ No ☒						MST		HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		☐ STEPHEN ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ ☐ GASOLINE MOD 8015 ☐ ☐ DIESEL - MOD 8015 ☐ ☐ OIL - MOD 8015 ☐ ☐ VOC 8260 ☐ ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ ☐ 8082 PCBs ☐ ☐ TBLP - METALS (RCRA) ☐ TOLP VOC ☐ ☐ TOTAL METALS (RCRA) ☐ HERB ☐ Semi-VOC ☐ ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TOLP ☐ ☐ RO ☐ TOX ☐ FLASHPOINT ☐ ☐ IDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ ☐ PH ☐ HEXAVALENT CHROMIUM ☐ ☐ EXPLOSIVES ☐ PECTHLORATE ☐ ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐			
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers								
S-3 (2-4)	16	12/19/19	12:43	S	1								
S-4 (0-1)	17		12:50										
S-4 (2-3)	18		12:55										
S-4 (3-4)	19		12:58										
S-5 (0-1)	20		13:00										
S-5 (2-3)	21		13:05										
S-5 (3-4)	22		13:10										
S-6 (0-0.5)	23		13:25										
S-6 (0.5-1)	24		13:27										
S-7 (1-2)	25		13:30										
S-7 (3-4)	26		13:36										
S-9 (0.5-1)	27		13:40										
S-9 (1-2)	28		13:42										
S-10 (0.5-1)	29		13:45										
S-10 (2-3)	30		13:49										
TOTAL				15									

RELINQUISHED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>12/20/19 11:55</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	TURN AROUND TIME NORMAL ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐ <u>3 days</u>
RELINQUISHED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>12-20-19 11:5</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	LABORATORY USE ONLY: RECEIVING TEMP: <u>43-33</u> THERM# <u>CE1.12</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # <u> </u> ☐ HAND DELIVERED

LABORATORY: PBEL

No 0929

Varson & Associates, Inc.

Environmental Consultants

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

Data Reported to:

DATE: 12-20-2019
PO#:
PROJECT LOCATION OR NAME: Dagger Lake 551 #
LAI PROJECT #: 19-0179-61
COLLECTOR: 920

CHAIN-OF-CUSTODY
PAGE 4 OF 4

Page 81 of 81

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:

MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☒ MTBE ☐
TPH 418.1 ☐ 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) ☐ Semi-VOC ☐
TCLP - PEST ☐ HERB ☐ OTHER LIST ☐
TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ TCLP ☐
LEAD - TOTAL ☐ FLASHPOINT ☐
RCI ☐ TOX ☐ % MOISTURE ☐ CYANIDE ☐
TDS ☐ TSS ☐ HEXAVALENT CHROMIUM ☐
pH ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

S-17 (D-1) 46
S-17 (2-32) 47
S-17 (3-4) 48

12-19-19 14:53
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RELINQUISHED BY: (Signature)
Daguer Lake

DATE/TIME

12/20/19 11:15

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
1 DAY ☐ 2 DAY ☐
OTHER ☐ 3 DAY

LABORATORY USE ONLY:
RECEIVING TEMP: 43-33
THERM#: CF1.12

CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED

RELINQUISHED BY: (Signature)
Daguer Lake

DATE/TIME

12-20-19 11:15

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
1 DAY ☐ 2 DAY ☐
OTHER ☐ 3 DAY

LABORATORY USE ONLY:
RECEIVING TEMP: 43-33
THERM#: CF1.12

CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED

LABORATORY: 9BEL

**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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0A24008



NELAP/TCEQ # T104704516-18-9

Report Date: 01/30/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3.1	0A24008-01	Soil	01/23/20 10:15	01-24-2020 09:42
3.2	0A24008-02	Soil	01/23/20 10:17	01-24-2020 09:42
3.3	0A24008-03	Soil	01/23/20 10:18	01-24-2020 09:42
3.4	0A24008-04	Soil	01/23/20 10:19	01-24-2020 09:42
3.5	0A24008-05	Soil	01/23/20 10:20	01-24-2020 09:42
3.6	0A24008-06	Soil	01/23/20 10:21	01-24-2020 09:42
5.1	0A24008-07	Soil	01/23/20 11:19	01-24-2020 09:42
5.2	0A24008-08	Soil	01/23/20 11:20	01-24-2020 09:42
5.3	0A24008-09	Soil	01/23/20 11:21	01-24-2020 09:42
5.4	0A24008-10	Soil	01/23/20 11:22	01-24-2020 09:42
5.5	0A24008-11	Soil	01/23/20 11:23	01-24-2020 09:42
5.6	0A24008-12	Soil	01/23/20 11:24	01-24-2020 09:42
5.7	0A24008-13	Soil	01/23/20 11:25	01-24-2020 09:42
5.8	0A24008-14	Soil	01/23/20 11:26	01-24-2020 09:42
5.9	0A24008-15	Soil	01/23/20 11:27	01-24-2020 09:42
5.10	0A24008-16	Soil	01/23/20 11:28	01-24-2020 09:42
5.11	0A24008-17	Soil	01/23/20 11:29	01-24-2020 09:42
5.12	0A24008-18	Soil	01/23/20 11:30	01-24-2020 09:42
5.13	0A24008-19	Soil	01/23/20 11:31	01-24-2020 09:42
5.14	0A24008-20	Soil	01/23/20 12:38	01-24-2020 09:42
5.15	0A24008-21	Soil	01/23/20 12:39	01-24-2020 09:42
4.1	0A24008-22	Soil	01/23/20 13:00	01-24-2020 09:42
4.2	0A24008-23	Soil	01/23/20 13:02	01-24-2020 09:42
4.3	0A24008-24	Soil	01/23/20 13:04	01-24-2020 09:42
4.4	0A24008-25	Soil	01/23/20 13:06	01-24-2020 09:42
4.5	0A24008-26	Soil	01/23/20 13:07	01-24-2020 09:42
4.6	0A24008-27	Soil	01/23/20 13:08	01-24-2020 09:42
4.7	0A24008-28	Soil	01/23/20 13:09	01-24-2020 09:42
4.8	0A24008-29	Soil	01/23/20 13:10	01-24-2020 09:42
4.9	0A24008-30	Soil	01/23/20 13:11	01-24-2020 09:42
4.10	0A24008-31	Soil	01/23/20 13:12	01-24-2020 09:42
7.1	0A24008-32	Soil	01/23/20 13:28	01-24-2020 09:42
7.2	0A24008-33	Soil	01/23/20 13:29	01-24-2020 09:42
7.3	0A24008-34	Soil	01/23/20 13:31	01-24-2020 09:42

Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
7.4	0A24008-35	Soil	01/23/20 13:33	01-24-2020 09:42
7.5	0A24008-36	Soil	01/23/20 13:35	01-24-2020 09:42
7.6	0A24008-37	Soil	01/23/20 13:36	01-24-2020 09:42
7.7	0A24008-38	Soil	01/23/20 13:37	01-24-2020 09:42
7.8	0A24008-39	Soil	01/23/20 13:39	01-24-2020 09:42
7.9	0A24008-40	Soil	01/23/20 13:40	01-24-2020 09:42

Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.1

0A24008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.8	1.00	mg/kg dry	1	P0A2718	01/27/20	01/28/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.2

0A24008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13200	51.0	mg/kg dry	50	P0A2718	01/27/20	01/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.3

0A24008-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	332	1.06	mg/kg dry	1	P0A2718	01/27/20	01/28/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.4

0A24008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	83.3	1.00	mg/kg dry	1	P0A2718	01/27/20	01/28/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	49.0	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	37.5	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	86.5	25.0	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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3.5
0A24008-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	68.2	1.03	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.6

0A24008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	467	1.05	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.1

0A24008-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.7	1.00	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2407	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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5.2

0A24008-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2707	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.1	1.01	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.3

0A24008-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/27/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/27/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/27/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2708	01/27/20	01/27/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/27/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2708	01/27/20	01/27/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.9 %	75-125		P0A2708	01/27/20	01/27/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	245	1.02	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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5.4

0A24008-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	519	1.01	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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5.5

0A24008-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.5	1.02	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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5.6

0A24008-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.5 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.67	1.00	mg/kg dry	1	P0A2718	01/27/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	26.7	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		88.6 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.7	25.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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5.7

0A24008-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	213	1.01	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.6 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/24/20	01/25/20	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.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.8

0A24008-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	31.6	1.04	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.9

0A24008-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2330	10.6	mg/kg dry	10	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.10

0A24008-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2460	10.4	mg/kg dry	10	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.11

0A24008-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	945	1.04	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.12

0A24008-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	136	1.05	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.13

0A24008-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	289	1.03	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.14

0A24008-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	819	1.04	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.15

0A24008-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	107	1.00	mg/kg dry	1	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

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4.1

0A24008-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3170	10.3	mg/kg dry	10	P0A2807	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.1 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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4.2

0A24008-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	618	1.00	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.6 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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4.3

0A24008-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4350	25.8	mg/kg dry	25	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.4

0A24008-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.9	1.00	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

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4.5

0A24008-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1290	5.10	mg/kg dry	5	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
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4.6

0A24008-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	31.2	1.08	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P0A2408	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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4.7

0A24008-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00122	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.4 %	75-125		P0A2708	01/27/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	120	1.22	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	18.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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4.8

0A24008-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	77.5	1.05	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.8	26.3	mg/kg dry	1	P0A2409	01/24/20	01/28/20	TPH 8015M	
>C12-C28	61.1	26.3	mg/kg dry	1	P0A2409	01/24/20	01/28/20	TPH 8015M	
>C28-C35	47.1	26.3	mg/kg dry	1	P0A2409	01/24/20	01/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		243 %	70-130		P0A2409	01/24/20	01/28/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		286 %	70-130		P0A2409	01/24/20	01/28/20	TPH 8015M	S-GC1
Total Petroleum Hydrocarbon C6-C35	136	26.3	mg/kg dry	1	[CALC]	01/24/20	01/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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4.9

0A24008-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	90.7	1.03	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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4.10

0A24008-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	87.5	1.03	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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7.1

0A24008-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	54.6	1.00	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0A2409	01/24/20	01/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/24/20	01/25/20	calc	

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7.2

0A24008-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.0	1.01	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

7.3

0A24008-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1290	5.15	mg/kg dry	5	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

7.4

0A24008-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	200	1.01	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	26.1	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.1	25.3	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

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7.5

0A24008-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.5	1.09	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	42.2	27.2	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	42.2	27.2	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

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7.6

0A24008-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	83.2	1.14	mg/kg dry	1	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	46.5	28.4	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	46.5	28.4	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

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7.7

0A24008-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6710	27.5	mg/kg dry	25	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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7.8

0A24008-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00128	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6920	32.1	mg/kg dry	25	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	22.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.1	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	46.8	32.1	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	46.8	32.1	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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7.9

0A24008-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1580	5.49	mg/kg dry	5	P0A2808	01/28/20	01/29/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0A2703	01/27/20	01/27/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0A2409	01/24/20	01/26/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/24/20	01/26/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2707 - General Preparation (GC)

Blank (P0A2707-BLK1)

Prepared & Analyzed: 01/27/20

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	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

LCS (P0A2707-BS1)

Prepared & Analyzed: 01/27/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.107	0.00100	"	0.100		107	70-130			
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130			
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130			
Xylene (o)	0.120	0.00100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	75-125			

LCS Dup (P0A2707-BSD1)

Prepared & Analyzed: 01/27/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130	3.47	20	
Toluene	0.114	0.00100	"	0.100		114	70-130	6.07	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	5.56	20	
Xylene (p/m)	0.232	0.00200	"	0.200		116	70-130	1.67	20	
Xylene (o)	0.108	0.00100	"	0.100		108	70-130	10.6	20	
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	75-125			

Calibration Blank (P0A2707-CCB1)

Prepared & Analyzed: 01/27/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2707 - General Preparation (GC)

Calibration Blank (P0A2707-CCB2)

Prepared & Analyzed: 01/27/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			

Calibration Blank (P0A2707-CCB3)

Prepared & Analyzed: 01/27/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P0A2707-CCV1)

Prepared & Analyzed: 01/27/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			

Calibration Check (P0A2707-CCV2)

Prepared & Analyzed: 01/27/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Permian Basin Environmental Lab, L.P.

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

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2707 - General Preparation (GC)

Calibration Check (P0A2707-CCV3)

Prepared & Analyzed: 01/27/20

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		117	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Matrix Spike (P0A2707-MS1)

Source: 0A24006-42

Prepared & Analyzed: 01/27/20

Benzene	0.0788	0.00105	mg/kg dry	0.105	ND	74.9	80-120			QM-07
Toluene	0.0808	0.00105	"	0.105	ND	76.7	80-120			QM-07
Ethylbenzene	0.0937	0.00105	"	0.105	ND	89.0	80-120			
Xylene (p/m)	0.162	0.00211	"	0.211	ND	76.9	80-120			QM-07
Xylene (o)	0.0789	0.00105	"	0.105	ND	75.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.134		"	0.126		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.126		110	75-125			

Matrix Spike Dup (P0A2707-MSD1)

Source: 0A24006-42

Prepared & Analyzed: 01/27/20

Benzene	0.0876	0.00105	mg/kg dry	0.105	ND	83.2	80-120	10.6	20	
Toluene	0.0886	0.00105	"	0.105	ND	84.1	80-120	9.19	20	
Ethylbenzene	0.0984	0.00105	"	0.105	ND	93.5	80-120	4.93	20	
Xylene (p/m)	0.174	0.00211	"	0.211	ND	82.8	80-120	7.42	20	
Xylene (o)	0.0872	0.00105	"	0.105	ND	82.8	80-120	9.95	20	
Surrogate: 1,4-Difluorobenzene	0.136		"	0.126		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.126		112	75-125			

Batch P0A2708 - General Preparation (GC)

Blank (P0A2708-BLK1)

Prepared & Analyzed: 01/27/20

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	0.119		"	0.120		98.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2708 - General Preparation (GC)

LCS (P0A2708-BS1)

Prepared & Analyzed: 01/27/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130			
Toluene	0.108	0.00100	"	0.100		108	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.231	0.00200	"	0.200		116	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		105	75-125			

LCS Dup (P0A2708-BSD1)

Prepared & Analyzed: 01/27/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	1.58	20	
Toluene	0.114	0.00100	"	0.100		114	70-130	5.39	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	11.8	20	
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130	1.32	20	
Xylene (o)	0.109	0.00100	"	0.100		109	70-130	3.54	20	
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			

Calibration Blank (P0A2708-CCB1)

Prepared & Analyzed: 01/27/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Blank (P0A2708-CCB2)

Prepared: 01/27/20 Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2708 - General Preparation (GC)

Calibration Blank (P0A2708-CCB3)

Prepared: 01/27/20 Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

Calibration Check (P0A2708-CCV1)

Prepared & Analyzed: 01/27/20

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		117	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P0A2708-CCV2)

Prepared: 01/27/20 Analyzed: 01/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.221	0.00200	"	0.200		111	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

Calibration Check (P0A2708-CCV3)

Prepared: 01/27/20 Analyzed: 01/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	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)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2708 - General Preparation (GC)

Matrix Spike (P0A2708-MS1)		Source: 0A24008-09		Prepared: 01/27/20		Analyzed: 01/28/20				
Benzene	0.0886	0.00102	mg/kg dry	0.102	ND	86.8	80-120			
Toluene	0.0906	0.00102	"	0.102	ND	88.8	80-120			
Ethylbenzene	0.107	0.00102	"	0.102	ND	105	80-120			
Xylene (p/m)	0.187	0.00204	"	0.204	ND	91.7	80-120			
Xylene (o)	0.0953	0.00102	"	0.102	ND	93.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.122		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.122		109	75-125			

Matrix Spike Dup (P0A2708-MSD1)		Source: 0A24008-09		Prepared: 01/27/20		Analyzed: 01/28/20				
Benzene	0.0921	0.00102	mg/kg dry	0.102	ND	90.2	80-120	3.85	20	
Toluene	0.0934	0.00102	"	0.102	ND	91.5	80-120	3.06	20	
Ethylbenzene	0.111	0.00102	"	0.102	ND	108	80-120	3.08	20	
Xylene (p/m)	0.192	0.00204	"	0.204	ND	94.2	80-120	2.67	20	
Xylene (o)	0.0974	0.00102	"	0.102	ND	95.4	80-120	2.19	20	
Surrogate: 4-Bromofluorobenzene	0.135		"	0.122		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.122		105	75-125			

Batch P0A2801 - General Preparation (GC)

Blank (P0A2801-BLK1)				Prepared & Analyzed: 01/28/20						
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	0.124		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

LCS (P0A2801-BS1)		Prepared & Analyzed: 01/28/20								
Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.110	0.00100	"	0.100		110	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.239	0.00200	"	0.200		120	70-130			
Xylene (o)	0.115	0.00100	"	0.100		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

LCS Dup (P0A2801-BS1)		Prepared & Analyzed: 01/28/20								
Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	7.66	20	
Toluene	0.116	0.00100	"	0.100		116	70-130	5.30	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	11.9	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130	1.42	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	1.95	20	
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Blank (P0A2801-CCB1)		Prepared & Analyzed: 01/28/20								
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Calibration Blank (P0A2801-CCB2)		Prepared & Analyzed: 01/28/20								
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

Calibration Blank (P0A2801-CCB3)

Prepared & Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			

Calibration Check (P0A2801-CCV1)

Prepared & Analyzed: 01/28/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P0A2801-CCV2)

Prepared & Analyzed: 01/28/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			

Calibration Check (P0A2801-CCV3)

Prepared & Analyzed: 01/28/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

Matrix Spike (P0A2801-MS1)		Source: 0A28004-01			Prepared & Analyzed: 01/28/20					
Benzene	0.0801	0.00101	mg/kg dry	0.101	ND	79.3	80-120			QM-07
Toluene	0.0830	0.00101	"	0.101	ND	82.2	80-120			
Ethylbenzene	0.0985	0.00101	"	0.101	ND	97.5	80-120			
Xylene (p/m)	0.174	0.00202	"	0.202	ND	86.3	80-120			
Xylene (o)	0.0882	0.00101	"	0.101	ND	87.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.121		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.121		105	75-125			

Matrix Spike Dup (P0A2801-MSD1)		Source: 0A28004-01			Prepared & Analyzed: 01/28/20					
Benzene	0.0862	0.00101	mg/kg dry	0.101	ND	85.3	80-120	7.26	20	
Toluene	0.0879	0.00101	"	0.101	ND	87.0	80-120	5.72	20	
Ethylbenzene	0.104	0.00101	"	0.101	ND	103	80-120	5.74	20	
Xylene (p/m)	0.182	0.00202	"	0.202	ND	90.0	80-120	4.14	20	
Xylene (o)	0.0901	0.00101	"	0.101	ND	89.2	80-120	2.07	20	
Surrogate: 1,4-Difluorobenzene	0.128		"	0.121		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.121		107	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2703 - * DEFAULT PREP *****

Blank (P0A2703-BLK1)	Prepared & Analyzed: 01/27/20									
% Moisture	ND	0.1	%							
Duplicate (P0A2703-DUP1)	Source: 0A24006-19 Prepared & Analyzed: 01/27/20									
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0A2703-DUP2)	Source: 0A24006-46 Prepared & Analyzed: 01/27/20									
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P0A2703-DUP3)	Source: 0A24008-18 Prepared & Analyzed: 01/27/20									
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P0A2703-DUP4)	Source: 0A24009-05 Prepared & Analyzed: 01/27/20									
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0A2703-DUP5)	Source: 0A24010-12 Prepared & Analyzed: 01/27/20									
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0A2703-DUP6)	Source: 0A24012-15 Prepared & Analyzed: 01/27/20									
% Moisture	6.0	0.1	%		7.0			15.4	20	

Batch P0A2718 - * DEFAULT PREP *****

Blank (P0A2718-BLK1)	Prepared: 01/27/20 Analyzed: 01/28/20									
Chloride	ND	0.100	mg/kg wet							
LCS (P0A2718-BS1)	Prepared: 01/27/20 Analyzed: 01/28/20									
Chloride	415	1.00	mg/kg wet	400		104	80-120			

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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
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Batch P0A2718 - * DEFAULT PREP *****

LCS Dup (P0A2718-BSD1) Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	415	1.00	mg/kg wet	400		104	80-120	0.145	20	
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Calibration Blank (P0A2718-CCB1) Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	0.00		mg/kg wet							
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Calibration Blank (P0A2718-CCB2) Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	0.00		mg/kg wet							
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Calibration Check (P0A2718-CCV1) Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	20.6		mg/kg	20.0		103	0-200			
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Calibration Check (P0A2718-CCV2) Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	21.0		mg/kg	20.0		105	0-200			
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Calibration Check (P0A2718-CCV3) Prepared: 01/27/20 Analyzed: 01/29/20

Chloride	21.3		mg/kg	20.0		106	0-200			
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Matrix Spike (P0A2718-MS1) Source: 0A24006-46 Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	537	1.06	mg/kg dry	532	13.3	98.4	80-120			
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Matrix Spike (P0A2718-MS2) Source: 0A24008-03 Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	858	1.06	mg/kg dry	532	332	98.9	80-120			
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Matrix Spike Dup (P0A2718-MSD1) Source: 0A24006-46 Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	528	1.06	mg/kg dry	532	13.3	96.8	80-120	1.59	20	
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Matrix Spike Dup (P0A2718-MSD2) Source: 0A24008-03 Prepared: 01/27/20 Analyzed: 01/28/20

Chloride	846	1.06	mg/kg dry	532	332	96.7	80-120	1.40	20	
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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
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Batch P0A2807 - * DEFAULT PREP *****

Blank (P0A2807-BLK1)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	ND	0.100	mg/kg wet
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LCS (P0A2807-BS1)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	429	1.00	mg/kg wet	400	107	80-120
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LCS Dup (P0A2807-BSD1)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	425	1.00	mg/kg wet	400	106	80-120	0.943	20
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Calibration Blank (P0A2807-CCB1)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	0.00		mg/kg wet
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Calibration Blank (P0A2807-CCB2)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0A2807-CCV1)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	21.3		mg/kg	20.0	106	0-200
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Calibration Check (P0A2807-CCV2)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	21.5		mg/kg	20.0	107	0-200
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Calibration Check (P0A2807-CCV3)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	21.0		mg/kg	20.0	105	0-200
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Matrix Spike (P0A2807-MS1)

Source: 0A28005-01

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	1760	5.26	mg/kg dry	526	1180	110	80-120
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Matrix Spike (P0A2807-MS2)

Source: 0A24008-15

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	3490	10.6	mg/kg dry	1060	2330	109	80-120
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Project Number: 19-0179-07
Project Manager: Mark Larson

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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 P0A2807 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0A2807-MSD1)		Source: 0A28005-01		Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	1740	5.26	mg/kg dry	526	1180	106	80-120	1.13	20	
Matrix Spike Dup (P0A2807-MSD2)		Source: 0A24008-15		Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	3550	10.6	mg/kg dry	1060	2330	115	80-120	1.88	20	
Batch P0A2808 - *** DEFAULT PREP ***										
Blank (P0A2808-BLK1)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	ND	0.100	mg/kg wet							
LCS (P0A2808-BS1)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	414	1.00	mg/kg wet	400		104	80-120			
LCS Dup (P0A2808-BSD1)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	416	1.00	mg/kg wet	400		104	80-120	0.328	20	
Calibration Blank (P0A2808-CCB1)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	0.00		mg/kg wet							
Calibration Blank (P0A2808-CCB2)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0A2808-CCV1)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	21.0		mg/kg	20.0		105	0-200			
Calibration Check (P0A2808-CCV2)				Prepared: 01/28/20		Analyzed: 01/29/20				
Chloride	20.7		mg/kg	20.0		104	0-200			

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Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2808 - * DEFAULT PREP *****

Calibration Check (P0A2808-CCV3)

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	21.1		mg/kg	20.0		105	0-200			
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Matrix Spike (P0A2808-MS1)

Source: 0A24008-24

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	7060	25.8	mg/kg dry	2580	4350	105	80-120			
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Matrix Spike (P0A2808-MS2)

Source: 0A24008-34

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	1750	5.15	mg/kg dry	515	1290	90.0	80-120			
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Matrix Spike Dup (P0A2808-MSD1)

Source: 0A24008-24

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	7060	25.8	mg/kg dry	2580	4350	105	80-120	0.00730	20	
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Matrix Spike Dup (P0A2808-MSD2)

Source: 0A24008-34

Prepared: 01/28/20 Analyzed: 01/29/20

Chloride	1780	5.15	mg/kg dry	515	1290	94.4	80-120	1.31	20	
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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2407 - TX 1005

Blank (P0A2407-BLK1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	63.3		"	50.0		127	70-130			

LCS (P0A2407-BS1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	898	25.0	mg/kg wet	1000		89.8	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

LCS Dup (P0A2407-BSD1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	900	25.0	mg/kg wet	1000		90.0	75-125	0.245	20	
>C12-C28	1110	25.0	"	1000		111	75-125	0.740	20	
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

Calibration Blank (P0A2407-CCB1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	18.6		mg/kg wet							
>C12-C28	10.6		"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	60.3		"	50.0		121	70-130			

Calibration Blank (P0A2407-CCB2)

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	18.4		mg/kg wet							
>C12-C28	22.1		"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	61.9		"	50.0		124	70-130			

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2407 - TX 1005

Calibration Check (P0A2407-CCV1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	483	25.0	mg/kg wet	500		96.7	85-115			
>C12-C28	573	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Calibration Check (P0A2407-CCV2)

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Matrix Spike (P0A2407-MS1)

Source: 0A24008-07

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	875	25.0	mg/kg dry	1000	18.7	85.6	75-125			
>C12-C28	1080	25.0	"	1000	ND	108	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

Matrix Spike Dup (P0A2407-MSD1)

Source: 0A24008-07

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	874	25.0	mg/kg dry	1000	18.7	85.5	75-125	0.145	20	
>C12-C28	1080	25.0	"	1000	ND	108	75-125	0.179	20	
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	57.9		"	50.0		116	70-130			

Batch P0A2408 - TX 1005

Blank (P0A2408-BLK1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2408 - TX 1005

LCS (P0A2408-BS1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	905	25.0	mg/kg wet	1000		90.5	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

LCS Dup (P0A2408-BS1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	901	25.0	mg/kg wet	1000		90.1	75-125	0.411	20	
>C12-C28	1080	25.0	"	1000		108	75-125	0.148	20	
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.1		"	50.0		108	70-130			

Calibration Blank (P0A2408-CCB1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	16.0		mg/kg wet							
>C12-C28	10.7		"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

Calibration Blank (P0A2408-CCB2)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	15.9		mg/kg wet							
>C12-C28	11.7		"							
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			

Calibration Check (P0A2408-CCV1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	520	25.0	mg/kg wet	500		104	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	59.1		"	50.0		118	70-130			

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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
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Batch P0A2408 - TX 1005

Calibration Check (P0A2408-CCV2)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	490	25.0	mg/kg wet	500		98.0	85-115			
>C12-C28	553	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			

Matrix Spike (P0A2408-MS1)

Source: 0A24008-27

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	916	26.9	mg/kg dry	1080	20.8	83.2	75-125			
>C12-C28	1100	26.9	"	1080	ND	102	75-125			
Surrogate: 1-Chlorooctane	114		"	108		106	70-130			
Surrogate: o-Terphenyl	56.8		"	53.8		106	70-130			

Matrix Spike Dup (P0A2408-MSD1)

Source: 0A24008-27

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	902	26.9	mg/kg dry	1080	20.8	82.0	75-125	1.51	20	
>C12-C28	1060	26.9	"	1080	ND	98.7	75-125	3.40	20	
Surrogate: 1-Chlorooctane	112		"	108		105	70-130			
Surrogate: o-Terphenyl	57.5		"	53.8		107	70-130			

Batch P0A2409 - TX 1005

Blank (P0A2409-BLK1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	58.3		"	50.0		117	70-130			

LCS (P0A2409-BS1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	885	25.0	mg/kg wet	1000		88.5	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	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 551H
Project Number: 19-0179-07
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
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Batch P0A2409 - TX 1005

LCS Dup (P0A2409-BSD1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	897	25.0	mg/kg wet	1000		89.7	75-125	1.28	20	
>C12-C28	1050	25.0	"	1000		105	75-125	0.0608	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

Calibration Blank (P0A2409-CCB1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	20.9		mg/kg wet							
>C12-C28	6.53		"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			

Calibration Blank (P0A2409-CCB2)

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	19.7		mg/kg wet							
>C12-C28	11.5		"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

Calibration Check (P0A2409-CCV1)

Prepared: 01/24/20 Analyzed: 01/25/20

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Calibration Check (P0A2409-CCV2)

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	516	25.0	mg/kg wet	500		103	85-115			
>C12-C28	549	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2409 - TX 1005

Calibration Check (P0A2409-CCV3)

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			

Matrix Spike (P0A2409-MS1)

Source: 0A24008-40

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	906	27.5	mg/kg dry	1100	19.0	80.7	75-125			
>C12-C28	1040	27.5	"	1100	ND	94.4	75-125			
Surrogate: 1-Chlorooctane	120		"	110		109	70-130			
Surrogate: o-Terphenyl	58.4		"	54.9		106	70-130			

Matrix Spike Dup (P0A2409-MSD1)

Source: 0A24008-40

Prepared: 01/24/20 Analyzed: 01/26/20

C6-C12	902	27.5	mg/kg dry	1100	19.0	80.4	75-125	0.411	20	
>C12-C28	1060	27.5	"	1100	ND	96.2	75-125	1.90	20	
Surrogate: 1-Chlorooctane	121		"	110		110	70-130			
Surrogate: o-Terphenyl	59.8		"	54.9		109	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

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:

1/30/2020

Brent Barron, Laboratory Director/Technical Director

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

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

DATE: 11/27/20 PAGE 1
PO#: _____ LAB WORK ORDER#: DA24008
PROJECT LOCATION OR NAME: Dagger Lake 551H
LAI PROJECT #: 19-D179-07 COLLECTOR: RD

Page 65 of 67

Received by QCD: 5/26/2020 1:25:45 PM

TRRP report? ☐ Yes ☒ No TIME ZONE: MST Time zone/State:		S=SOIL W=WATER A=AIR		P-PAINT SL=SLUDGE OT=OTHER	
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
3.1	1	1/23/20	10:15	S	1
3.2	2	1/23/20	10:17		
3.3	3	1/23/20	10:18		
3.4	4	1/23/20	10:19		
3.5	5	1/23/20	10:20		
3.6	6	1/23/20	10:21		
5.1	7	1/23/20	11:19		
5.2	8	1/23/20	11:20		
5.3	9	1/23/20	11:21		
5.4	10	1/23/20	11:22		
5.5	11	1/23/20	11:23		
5.6	12	1/23/20	11:24		
5.7	13	1/23/20	11:25		
5.8	14	1/23/20	11:26		
5.9	15	1/23/20	11:27		
TOTAL		15			

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

LABORATORY: PBEL

TURN AROUND TIME
 NORMAL ☐
 1 DAY ☐
 2 DAY ☐
 OTHER 5 days

LABORATORY USE ONLY:
 RECEIVING TEMP: 30 THERM#: 12
 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

ANALYSES
 BTEX ☒ MTBE ☐
 TPH 418.1 ☐ 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 VOC ☐
 TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
 TOTAL METALS (RCRA) ☐ OTHER LIST ☐
 LEAD - TOTAL ☐ D.W 200.8 ☐ TCLP ☐
 RCI ☐ TOX ☐ FLASHPOINT ☐
 TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
 PH ☐ HEXAVALENT CHROMIUM ☐
 EXPLOSIVES ☐ PECTHOLATE ☐
 CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

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

Data Reported to:

DATE: 1/24/20 PAGE 5 OF 5
PO#: _____ LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Dagger Lake 5514
LAI PROJECT #: 19-D179-D3 COLLECTOR: RD

PAGE 5 OF 7

CHAIN-OF-CUSTOMERS

0955
Z 10

Page 66 of 67

Received by QCD: 5/26/2020 1:25:45 PM

TRRP report? ☐ Yes ☒ No TIME ZONE: MST Time zone/State:		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
5.10	16	1/23/20	11:28	S	1
5.11	17	1/23/20	11:29	S	1
5.12	18	1/23/20	11:30	S	1
5.13	19	1/23/20	11:31	S	1
5.14	20	1/23/20	12:38	S	1
5.15	21	1/23/20	12:39	S	1
4.1	22	1/23/20	13:05	S	1
4.2	23	1/23/20	13:02	S	1
4.3	24	1/23/20	13:04	S	1
4.4	25	1/23/20	13:06	S	1
4.5	26	1/23/20	13:07	S	1
4.6	27	1/23/20	13:08	S	1
4.7	28	1/23/20	13:09	S	1
4.8	29	1/23/20	13:10	S	1
4.9	30	1/23/20	13:11	S	1
TOTAL					

RELINQUISHED BY: (Signature) DATE/TIME: 1/24/2020 9:42 RECEIVED BY: (Signature) DATE/TIME: 1/24/2020 9:42	RELINQUISHED BY: (Signature) DATE/TIME: 1/24/2020 9:42 RECEIVED BY: (Signature) DATE/TIME: 1/24/2020 9:42
--	--

LABORATORY: PBL DATE/TIME: 1/24/2020 9:42 RECEIVED BY: (Signature)	TURN AROUND TIME NORMAL ☐ 1 DAY ☐ 2 DAY ☐ OTHER: 5 days
--	--

LABORATORY USE ONLY: RECEIVING TEMP: 20-3.0 THERM: C/F+1 CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED CARRIER BILL # HAND DELIVERED	FIELD NOTES
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507 N. Mariefeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/24/20 PAGE 2 OF 2
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Dagger Lake 551H
LAI PROJECT #: 19-0179-07 COLLECTOR: RO

PAGE 2 OF 2

Page 67 of 67

[illegible]

**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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0B03005



NELAP/TCEQ # T104704516-17-8

Report Date: 02/07/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12.1	0B03005-01	Soil	01/31/20 11:37	02-03-2020 09:23
12.2	0B03005-02	Soil	01/31/20 11:39	02-03-2020 09:23
12.3	0B03005-03	Soil	01/31/20 11:40	02-03-2020 09:23
12.4	0B03005-04	Soil	01/31/20 11:42	02-03-2020 09:23
12.5	0B03005-05	Soil	01/31/20 11:43	02-03-2020 09:23
12.6	0B03005-06	Soil	01/31/20 11:43	02-03-2020 09:23
12.7	0B03005-07	Soil	01/31/20 11:44	02-03-2020 09:23
17.1	0B03005-08	Soil	01/31/20 11:45	02-03-2020 09:23
17.2	0B03005-09	Soil	01/31/20 12:00	02-03-2020 09:23
17.3	0B03005-10	Soil	01/31/20 12:02	02-03-2020 09:23
17.4	0B03005-11	Soil	01/31/20 12:03	02-03-2020 09:23
17.5	0B03005-12	Soil	01/31/20 12:04	02-03-2020 09:23
13.1	0B03005-13	Soil	01/31/20 12:05	02-03-2020 09:23
13.2	0B03005-14	Soil	01/31/20 12:13	02-03-2020 09:23
13.3	0B03005-15	Soil	01/31/20 12:14	02-03-2020 09:23
13.4	0B03005-16	Soil	01/31/20 12:15	02-03-2020 09:23
13.5	0B03005-17	Soil	01/31/20 00:00	02-03-2020 09:23
13.6	0B03005-18	Soil	01/31/20 00:00	02-03-2020 09:23
13.7	0B03005-19	Soil	01/31/20 00:00	02-03-2020 09:23
13.8	0B03005-20	Soil	01/31/20 00:00	02-03-2020 09:23
13.9	0B03005-21	Soil	01/31/20 00:00	02-03-2020 09:23
15.1	0B03005-22	Soil	01/31/20 00:00	02-03-2020 09:23
15.2	0B03005-23	Soil	01/31/20 00:00	02-03-2020 09:23
15.3	0B03005-24	Soil	01/31/20 00:00	02-03-2020 09:23
15.4	0B03005-25	Soil	01/31/20 00:00	02-03-2020 09:23
15.5	0B03005-26	Soil	01/31/20 00:00	02-03-2020 09:23
15.6	0B03005-27	Soil	01/31/20 00:00	02-03-2020 09:23

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.1

0B03005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.9 %		75-125	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %		75-125	P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.14	1.01	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %		70-130	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %		70-130	P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.2

0B03005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	144	1.02	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.3

0B03005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.9 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	159	1.01	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	25.9	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	25.9	25.3	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.4

0B03005-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	48.6	1.08	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.5
0B03005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.1 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.7	1.10	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.6
0B03005-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.8	1.06	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C12-C28	28.3	26.6	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0B0303	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.3	26.6	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

12.7

0B03005-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	61.6	1.05	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C12-C28	26.6	26.3	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.6	26.3	mg/kg dry	1	[CALC]	02/03/20	02/04/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.1

0B03005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.0 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.41	1.00	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	02/03/20	02/04/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.2

0B03005-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.7 %	75-125		P0B0306	02/03/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.48	1.03	mg/kg dry	1	P0B0312	02/03/20	02/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P0B0303	02/03/20	02/04/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/03/20	02/04/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.3

0B03005-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2930	5.43	mg/kg dry	5	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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17.4

0B03005-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	50.4	1.04	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.5

0B03005-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.6	1.12	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.1
0B03005-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.6	1.01	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.2
0B03005-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.9	1.01	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.3

0B03005-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.6 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.1	1.18	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.4
0B03005-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.4 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.5	1.01	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.5
0B03005-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.7 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	47.9	1.03	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.6
0B03005-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.7 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.6	1.02	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.7

0B03005-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19.5	1.02	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	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 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.8
0B03005-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.8	1.03	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

13.9

0B03005-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	27.3	1.04	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.1
0B03005-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.6 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	90.6	1.00	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.4 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.2
0B03005-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	85.5	1.02	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.6 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.3

0B03005-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.8 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1400	1.03	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.4
0B03005-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3790	5.38	mg/kg dry	5	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.2 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.5
0B03005-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	678	1.14	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	39.9	28.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	39.9	28.4	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.6
0B03005-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.2 %	75-125		P0B0402	02/04/20	02/04/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17.5	1.10	mg/kg dry	1	P0B0313	02/03/20	02/04/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0B0401	02/04/20	02/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B0304	02/03/20	02/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	02/03/20	02/03/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0306 - General Preparation (GC)

Blank (P0B0306-BLK1)

Prepared & Analyzed: 02/03/20

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	0.116		"	0.120		96.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.9	75-125			

LCS (P0B0306-BS1)

Prepared & Analyzed: 02/03/20

Benzene	0.0866	0.00100	mg/kg wet	0.100		86.6	70-130			
Toluene	0.0869	0.00100	"	0.100		86.9	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.174	0.00200	"	0.200		86.8	70-130			
Xylene (o)	0.0941	0.00100	"	0.100		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			

LCS Dup (P0B0306-BSD1)

Prepared & Analyzed: 02/03/20

Benzene	0.0970	0.00100	mg/kg wet	0.100		97.0	70-130	11.3	20	
Toluene	0.0978	0.00100	"	0.100		97.8	70-130	11.9	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	0.739	20	
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	70-130	9.54	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	10.6	20	
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			

Calibration Blank (P0B0306-CCB1)

Prepared & Analyzed: 02/03/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0306 - General Preparation (GC)

Calibration Blank (P0B0306-CCB2)

Prepared: 02/03/20 Analyzed: 02/04/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	75-125			

Calibration Check (P0B0306-CCV1)

Prepared & Analyzed: 02/03/20

Benzene	0.0959	0.00100	mg/kg wet	0.100		95.9	80-120			
Toluene	0.0958	0.00100	"	0.100		95.8	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		90.9	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P0B0306-CCV2)

Prepared: 02/03/20 Analyzed: 02/04/20

Benzene	0.0910	0.00100	mg/kg wet	0.100		91.0	80-120			
Toluene	0.0904	0.00100	"	0.100		90.4	80-120			
Ethylbenzene	0.0959	0.00100	"	0.100		95.9	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		86.9	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

Calibration Check (P0B0306-CCV3)

Prepared: 02/03/20 Analyzed: 02/04/20

Benzene	0.0895	0.00100	mg/kg wet	0.100		89.5	80-120			
Toluene	0.0868	0.00100	"	0.100		86.8	80-120			
Ethylbenzene	0.0892	0.00100	"	0.100		89.2	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.5	80-120			
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0306 - General Preparation (GC)

Matrix Spike (P0B0306-MS1)		Source: 0B03004-01		Prepared: 02/03/20		Analyzed: 02/04/20				
Benzene	0.0819	0.00106	mg/kg dry	0.106	ND	76.9	80-120			QM-07
Toluene	0.0759	0.00106	"	0.106	ND	71.3	80-120			QM-07
Ethylbenzene	0.0901	0.00106	"	0.106	ND	84.7	80-120			
Xylene (p/m)	0.141	0.00213	"	0.213	ND	66.1	80-120			QM-07
Xylene (o)	0.0740	0.00106	"	0.106	ND	69.6	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.131		"	0.128		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.128		98.5	75-125			

Matrix Spike Dup (P0B0306-MSD1)		Source: 0B03004-01		Prepared: 02/03/20		Analyzed: 02/04/20				
Benzene	0.0858	0.00106	mg/kg dry	0.106	ND	80.7	80-120	4.73	20	
Toluene	0.0803	0.00106	"	0.106	ND	75.5	80-120	5.64	20	QM-07
Ethylbenzene	0.0937	0.00106	"	0.106	ND	88.1	80-120	3.90	20	
Xylene (p/m)	0.146	0.00213	"	0.213	ND	68.4	80-120	3.49	20	QM-07
Xylene (o)	0.0782	0.00106	"	0.106	ND	73.5	80-120	5.48	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.126		"	0.128		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.128		101	75-125			

Batch P0B0402 - General Preparation (GC)

Blank (P0B0402-BLK1)				Prepared & Analyzed: 02/04/20						
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	0.114		"	0.120		94.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0402 - General Preparation (GC)

LCS (P0B0402-BS1)

Prepared & Analyzed: 02/04/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	70-130			
Toluene	0.0924	0.00100	"	0.100		92.4	70-130			
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	70-130			
Xylene (o)	0.100	0.00100	"	0.100		100	70-130			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

LCS Dup (P0B0402-BSD1)

Prepared & Analyzed: 02/04/20

Benzene	0.0978	0.00100	mg/kg wet	0.100		97.8	70-130	5.34	20	
Toluene	0.0969	0.00100	"	0.100		96.9	70-130	4.74	20	
Ethylbenzene	0.121	0.00100	"	0.100		121	70-130	4.46	20	
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	70-130	2.94	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	4.86	20	
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.9	75-125			

Calibration Blank (P0B0402-CCB1)

Prepared & Analyzed: 02/04/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.300		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	75-125			

Calibration Blank (P0B0402-CCB2)

Prepared & Analyzed: 02/04/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0402 - General Preparation (GC)

Calibration Check (P0B0402-CCV1)

Prepared & Analyzed: 02/04/20

Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120			
Toluene	0.0926	0.00100	"	0.100		92.6	80-120			
Ethylbenzene	0.0955	0.00100	"	0.100		95.5	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.6	80-120			
Xylene (o)	0.0969	0.00100	"	0.100		96.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P0B0402-CCV2)

Prepared & Analyzed: 02/04/20

Benzene	0.0913	0.00100	mg/kg wet	0.100		91.3	80-120			
Toluene	0.0897	0.00100	"	0.100		89.7	80-120			
Ethylbenzene	0.0926	0.00100	"	0.100		92.6	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.7	80-120			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	75-125			

Calibration Check (P0B0402-CCV3)

Prepared & Analyzed: 02/04/20

Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	80-120			
Toluene	0.0920	0.00100	"	0.100		92.0	80-120			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.0	80-120			
Xylene (o)	0.0970	0.00100	"	0.100		97.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			

Matrix Spike (P0B0402-MS1)

Source: 0B03005-10

Prepared & Analyzed: 02/04/20

Benzene	0.0871	0.00109	mg/kg dry	0.109	ND	80.2	80-120			
Toluene	0.0833	0.00109	"	0.109	ND	76.6	80-120			QM-07
Ethylbenzene	0.102	0.00109	"	0.109	ND	94.0	80-120			
Xylene (p/m)	0.166	0.00217	"	0.217	ND	76.3	80-120			QM-07
Xylene (o)	0.0886	0.00109	"	0.109	ND	81.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.130		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.130		98.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B0402 - General Preparation (GC)

Matrix Spike Dup (P0B0402-MSD1)		Source: 0B03005-10			Prepared & Analyzed: 02/04/20					
Benzene	0.0873	0.00109	mg/kg dry	0.109	ND	80.3	80-120	0.224	20	
Toluene	0.0851	0.00109	"	0.109	ND	78.3	80-120	2.21	20	QM-07
Ethylbenzene	0.103	0.00109	"	0.109	ND	94.8	80-120	0.826	20	
Xylene (p/m)	0.166	0.00217	"	0.217	ND	76.5	80-120	0.209	20	QM-07
Xylene (o)	0.0888	0.00109	"	0.109	ND	81.7	80-120	0.208	20	
Surrogate: 4-Bromofluorobenzene	0.132		"	0.130		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.130		98.3	75-125			

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Project Number: 19-0179-07
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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
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Batch P0B0312 - * DEFAULT PREP *****

Blank (P0B0312-BLK1)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	ND	0.100	mg/kg wet
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LCS (P0B0312-BS1)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	414	1.00	mg/kg wet	400	103	80-120
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LCS Dup (P0B0312-BSD1)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	414	1.00	mg/kg wet	400	103	80-120	0.0894	20
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Calibration Blank (P0B0312-CCB1)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	0.00		mg/kg wet
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Calibration Blank (P0B0312-CCB2)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0B0312-CCV1)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	20.9		mg/kg	20.0	105	0-200
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Calibration Check (P0B0312-CCV2)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	20.3		mg/kg	20.0	102	0-200
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Calibration Check (P0B0312-CCV3)

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	22.1		mg/kg	20.0	110	0-200
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Matrix Spike (P0B0312-MS1)

Source: 0A16014-15

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	11700	30.9	mg/kg dry	3090	8460	105	80-120
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Matrix Spike (P0B0312-MS2)

Source: 0B03005-01

Prepared: 02/03/20 Analyzed: 02/04/20

Chloride	510	1.01	mg/kg dry	404	6.14	125	80-120
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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 P0B0312 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0B0312-MSD1)		Source: 0A16014-15		Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	11600	30.9	mg/kg dry	3090	8460	102	80-120	0.793	20	
Matrix Spike Dup (P0B0312-MSD2)		Source: 0B03005-01		Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	498	1.01	mg/kg dry	404	6.14	122	80-120	2.37	20	
Batch P0B0313 - *** DEFAULT PREP ***										
Blank (P0B0313-BLK1)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	ND	0.100	mg/kg wet							
LCS (P0B0313-BS1)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	430	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P0B0313-BSD1)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	431	1.00	mg/kg wet	400		108	80-120	0.365	20	
Calibration Blank (P0B0313-CCB1)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B0313-CCB2)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	0.00		mg/kg wet							
Calibration Check (P0B0313-CCV1)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	22.1		mg/kg	20.0		110	0-200			
Calibration Check (P0B0313-CCV2)				Prepared: 02/03/20		Analyzed: 02/04/20				
Chloride	21.9		mg/kg	20.0		110	0-200			

Permian Basin Environmental Lab, L.P.

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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
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Batch P0B0313 - * DEFAULT PREP *****

Calibration Check (P0B0313-CCV3)				Prepared: 02/03/20 Analyzed: 02/04/20						
Chloride	22.6		mg/kg	20.0		113	0-200			
Matrix Spike (P0B0313-MS1)				Source: 0B03005-10 Prepared: 02/03/20 Analyzed: 02/04/20						
Chloride	3540	5.43	mg/kg dry	543	2930	111	80-120			
Matrix Spike (P0B0313-MS2)				Source: 0B03005-25 Prepared: 02/03/20 Analyzed: 02/04/20						
Chloride	4340	5.38	mg/kg dry	538	3790	101	80-120			
Matrix Spike Dup (P0B0313-MSD1)				Source: 0B03005-10 Prepared: 02/03/20 Analyzed: 02/04/20						
Chloride	3590	5.43	mg/kg dry	543	2930	121	80-120	1.42	20	
Matrix Spike Dup (P0B0313-MSD2)				Source: 0B03005-25 Prepared: 02/03/20 Analyzed: 02/04/20						
Chloride	4320	5.38	mg/kg dry	538	3790	97.6	80-120	0.425	20	

Batch P0B0401 - * DEFAULT PREP *****

Blank (P0B0401-BLK1)				Prepared & Analyzed: 02/04/20						
% Moisture	ND	0.1	%							
Duplicate (P0B0401-DUP1)				Source: 0B03004-07 Prepared & Analyzed: 02/04/20						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0B0401-DUP2)				Source: 0B03005-23 Prepared & Analyzed: 02/04/20						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0B0401-DUP3)				Source: 0B03005-27 Prepared & Analyzed: 02/04/20						
% Moisture	8.0	0.1	%		9.0			11.8	20	

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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
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Batch P0B0303 - TX 1005

Blank (P0B0303-BLK1)

Prepared & Analyzed: 02/03/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.2		"	50.0		128	70-130			

LCS (P0B0303-BS1)

Prepared & Analyzed: 02/03/20

C6-C12	862	25.0	mg/kg wet	1000		86.2	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS Dup (P0B0303-BSD1)

Prepared & Analyzed: 02/03/20

C6-C12	851	25.0	mg/kg wet	1000		85.1	75-125	1.30	20	
>C12-C28	1010	25.0	"	1000		101	75-125	1.63	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

Calibration Blank (P0B0303-CCB1)

Prepared & Analyzed: 02/03/20

C6-C12	11.9		mg/kg wet							
>C12-C28	13.7		"							
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	58.2		"	50.0		116	70-130			

Calibration Blank (P0B0303-CCB2)

Prepared & Analyzed: 02/03/20

C6-C12	12.4		mg/kg wet							
>C12-C28	6.80		"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B0303 - TX 1005

Calibration Check (P0B0303-CCV1)

Prepared & Analyzed: 02/03/20

C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	559	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	59.3		"	50.0		119	70-130			

Calibration Check (P0B0303-CCV2)

Prepared & Analyzed: 02/03/20

C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	58.0		"	50.0		116	70-130			

Calibration Check (P0B0303-CCV3)

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	507	25.0	mg/kg wet	500		101	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			

Matrix Spike (P0B0303-MS1)

Source: 0B03005-09

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	920	25.8	mg/kg dry	1030	12.6	88.1	75-125			
>C12-C28	1120	25.8	"	1030	ND	109	75-125			
Surrogate: 1-Chlorooctane	120		"	103		116	70-130			
Surrogate: o-Terphenyl	59.7		"	51.5		116	70-130			

Matrix Spike Dup (P0B0303-MSD1)

Source: 0B03005-09

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	929	25.8	mg/kg dry	1030	12.6	88.9	75-125	0.912	20	
>C12-C28	1110	25.8	"	1030	ND	107	75-125	1.76	20	
Surrogate: 1-Chlorooctane	112		"	103		109	70-130			
Surrogate: o-Terphenyl	59.5		"	51.5		115	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B0304 - TX 1005

Blank (P0B0304-BLK1)

Prepared & Analyzed: 02/03/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	62.1		"	50.0		124	70-130			

LCS (P0B0304-BS1)

Prepared & Analyzed: 02/03/20

C6-C12	795	25.0	mg/kg wet	1000		79.5	75-125			
>C12-C28	976	25.0	"	1000		97.6	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		98.1	70-130			

LCS Dup (P0B0304-BSD1)

Prepared & Analyzed: 02/03/20

C6-C12	765	25.0	mg/kg wet	1000		76.5	75-125	3.84	20	
>C12-C28	957	25.0	"	1000		95.7	75-125	2.03	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.4	70-130			

Calibration Blank (P0B0304-CCB1)

Prepared & Analyzed: 02/03/20

C6-C12	13.1		mg/kg wet							
>C12-C28	14.1		"							
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Calibration Blank (P0B0304-CCB2)

Prepared & Analyzed: 02/03/20

C6-C12	11.9		mg/kg wet							
>C12-C28	14.0		"							
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	56.5		"	50.0		113	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B0304 - TX 1005

Calibration Check (P0B0304-CCV1)

Prepared & Analyzed: 02/03/20

C6-C12	463	25.0	mg/kg wet	500		92.6	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

Calibration Check (P0B0304-CCV2)

Prepared & Analyzed: 02/03/20

C6-C12	468	25.0	mg/kg wet	500		93.6	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.5		"	50.0		107	70-130			

Calibration Check (P0B0304-CCV3)

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	528	25.0	mg/kg wet	500		106	85-115			
>C12-C28	480	25.0	"	500		96.0	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

Matrix Spike (P0B0304-MS1)

Source: 0B03005-27

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	914	27.5	mg/kg dry	1100	18.0	81.6	75-125			
>C12-C28	1130	27.5	"	1100	14.3	102	75-125			
Surrogate: 1-Chlorooctane	127		"	110		115	70-130			
Surrogate: o-Terphenyl	64.0		"	54.9		116	70-130			

Matrix Spike Dup (P0B0304-MSD1)

Source: 0B03005-27

Prepared: 02/03/20 Analyzed: 02/04/20

C6-C12	985	27.5	mg/kg dry	1100	18.0	88.0	75-125	7.58	20	
>C12-C28	1210	27.5	"	1100	14.3	109	75-125	6.59	20	
Surrogate: 1-Chlorooctane	133		"	110		121	70-130			
Surrogate: o-Terphenyl	63.4		"	54.9		115	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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.

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:

2/7/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.

Project: Dagger Lake 551H

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-07

Midland TX, 79710

Project Manager: Mark Larson

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

DATE: 2/3/2020
PO#: _____
PROJECT LOCATION OR NAME: _____
LAI PROJECT #: 19-01

DATE: 2/3/2020
PO#: _____
PROJECT LOCATION OR NAME: _____
LAI PROJECT #: 19-01

Dagger 551H
LAB WORK ORDER# C B 03005
COLLECTOR: RD
07

COLLECTOR: RD

Page 45 of 46

Received by OCP: 3/26/2020 1:25:45 PM

TRRP report? ☐ Yes ☒ No TIME ZONE: _____ Time zone/State: _____		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
MST Field Sample I.D.		Lab #		Date	
Time		Matrix		# of Containers	
HCl HNO ₃ H ₂ SO ₄ ☐ NaOH ☐ ICE UNPRESERVED		PRESERVATION			
ANALYSES BTEX/MTBE ☐ TPH 418.1 ☐ 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 VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ P.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXVALENT CHROMIUM ☐ EXPLOSIVES ☐ PETCHLORATE ☐ CHLORIDE/ANIONS ☐ ALKALINITY ☐					
FIELD NOTES					

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	TURN AROUND TIME	LABORATORY USE ONLY:
1a.1	1	11/20	11:37	S	1						BTEX/MTBE ☐ TPH 418.1 ☐ 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 VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ P.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXVALENT CHROMIUM ☐ EXPLOSIVES ☐ PETCHLORATE ☐ CHLORIDE/ANIONS ☐ ALKALINITY ☐	NORMAL ☐ 1 DAY ☐ 2 DAY ☐ OTHER 3 day	LABORATORY USE ONLY: RECEIVING TEMP: 52-42 THERM#: CFH CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # ☐ HAND DELIVERED
1a.2	2	11:39											
1a.3	3	11:40											
1a.4	4	11:42											
1a.5	5	11:43											
1a.6	6	11:44											
1a.7	7	11:45											
1a.8	8	12:00											
1a.9	9	12:02											
1a.10	10	12:03											
1a.11	11	12:04											
1a.12	12	12:05											
1a.13	13	12:13											
1a.14	14	12:14											
1a.15	15	12:15											
TOTAL	15												

RELINQUISHED BY: (Signature) _____ DATE/TIME: 2:32 PM RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME: 4:23 PM RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____ RECEIVED BY: (Signature) _____

LABORATORY: PBEL

**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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0A28004



NELAP/TCEQ # T104704516-18-9

Report Date: 02/14/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10.1	0A28004-01	Soil	01/27/20 12:20	01-28-2020 09:10
10.2	0A28004-02	Soil	01/27/20 12:21	01-28-2020 09:10
10.3	0A28004-03	Soil	01/27/20 12:22	01-28-2020 09:10
10.4	0A28004-04	Soil	01/27/20 12:23	01-28-2020 09:10
10.5	0A28004-05	Soil	01/27/20 12:26	01-28-2020 09:10
10.6	0A28004-06	Soil	01/27/20 12:27	01-28-2020 09:10
10.7	0A28004-07	Soil	01/27/20 12:28	01-28-2020 09:10
10.8	0A28004-08	Soil	01/27/20 12:29	01-28-2020 09:10
11.1	0A28004-09	Soil	01/27/20 12:53	01-28-2020 09:10
11.2	0A28004-10	Soil	01/27/20 12:55	01-28-2020 09:10
11.3	0A28004-11	Soil	01/27/20 12:56	01-28-2020 09:10
11.4	0A28004-12	Soil	01/27/20 12:57	01-28-2020 09:10
11.5	0A28004-13	Soil	01/27/20 12:59	01-28-2020 09:10
11.6	0A28004-14	Soil	01/27/20 13:00	01-28-2020 09:10
11.7	0A28004-15	Soil	01/27/20 13:07	01-28-2020 09:10
11.8	0A28004-16	Soil	01/27/20 13:08	01-28-2020 09:10
11.9	0A28004-17	Soil	01/27/20 13:09	01-28-2020 09:10
11.10	0A28004-18	Soil	01/27/20 13:10	01-28-2020 09:10
11.11	0A28004-19	Soil	01/27/20 13:11	01-28-2020 09:10
11.12	0A28004-20	Soil	01/27/20 13:12	01-28-2020 09:10
11.13	0A28004-21	Soil	01/27/20 13:13	01-28-2020 09:10
11.14	0A28004-22	Soil	01/27/20 13:14	01-28-2020 09:10
11.15	0A28004-23	Soil	01/27/20 13:15	01-28-2020 09:10
11.16	0A28004-24	Soil	01/27/20 13:16	01-28-2020 09:10
11.17	0A28004-25	Soil	01/27/20 13:20	01-28-2020 09:10

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.1

0A28004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	418	1.01	mg/kg dry	1	P0B1114	02/11/20	02/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	40.1	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	26.0	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	66.1	25.3	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.2

0A28004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	114	1.08	mg/kg dry	1	P0B1114	02/11/20	02/12/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.3

0A28004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.01	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.1 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.4

0A28004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.5 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	42.4	1.06	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	79.8	26.6	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	69.8	26.6	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.1 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	150	26.6	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.5
0A28004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.5	1.09	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	53.0	27.2	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	28.9	27.2	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	81.9	27.2	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.6

0A28004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	22.3	1.12	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.6 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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10.7

0A28004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P0A2801	01/28/20	01/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	337	1.19	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.3 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Surrogate: o-Terphenyl		97.1 %	70-130		P0A2901	01/29/20	01/30/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	01/29/20	01/30/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

10.8
0A28004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	102	1.18	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	48.9	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	48.9	29.4	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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Project Number: 19-0179-07
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11.1

0A28004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.6 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13.4	1.16	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	36.2	29.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	36.2	29.1	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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Project Number: 19-0179-07
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11.2
0A28004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00127	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00127	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00127	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00253	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00127	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.4	1.27	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	21.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.6	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.0 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.3
0A28004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.4	1.18	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	15.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	63.9	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		214 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		239 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	S-GC1
Total Petroleum Hydrocarbon C6-C35	63.9	29.4	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.4
0A28004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.9	1.02	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	63.2	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	26.6	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	89.9	25.5	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.5
0A28004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	0.00141	0.00110	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.8	1.10	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		75.4 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.6
0A28004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00149	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00149	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00149	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00299	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00149	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.1	1.49	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	33.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	37.3	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	ND	37.3	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	37.3	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	37.3	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.7
0A28004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.0 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1160	1.04	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.8
0A28004-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	72.9	1.02	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.9
0A28004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.27	1.03	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	44.5	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	44.5	25.8	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.10
0A28004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00137	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00137	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00137	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00274	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00137	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	92.3	1.37	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	27.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	34.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	86.6	34.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	43.5	34.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	130	34.2	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.11

0A28004-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00167	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00167	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00167	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00333	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00167	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	208	1.67	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	40.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	41.7	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	54.9	41.7	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	41.7	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	54.9	41.7	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.12

0A28004-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	522	1.03	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	59.4	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	27.4	25.8	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	86.8	25.8	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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Project: Dagger Lake 551H
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11.13

0A28004-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00125	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	848	1.25	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	38.7	31.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	130	31.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		126 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	169	31.2	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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Project Number: 19-0179-07
Project Manager: Mark Larson

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11.14

0A28004-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.7 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.8	1.08	mg/kg dry	1	P0B1115	02/11/20	02/12/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	50.3	26.9	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	39.6	26.9	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	89.9	26.9	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.15

0A28004-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	60.7	1.04	mg/kg dry	1	P0B1205	02/12/20	02/12/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	95.8	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	70.5	26.0	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	166	26.0	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.16

0A28004-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00120	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	42.0	1.20	mg/kg dry	1	P0B1205	02/12/20	02/12/20	EPA 300.0	
% Moisture	17.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	49.1	30.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	49.1	30.1	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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11.17

0A28004-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0A2802	01/28/20	01/29/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.4	1.12	mg/kg dry	1	P0B1205	02/12/20	02/12/20	EPA 300.0	
% Moisture	11.0	0.1	%	1	P0A2918	01/29/20	01/29/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C12-C28	38.1	28.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0A2902	01/29/20	01/31/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	38.1	28.1	mg/kg dry	1	[CALC]	01/29/20	01/31/20	calc	

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

Blank (P0A2801-BLK1)

Prepared & Analyzed: 01/28/20

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	0.124		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

LCS (P0A2801-BS1)

Prepared & Analyzed: 01/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.110	0.00100	"	0.100		110	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.239	0.00200	"	0.200		120	70-130			
Xylene (o)	0.115	0.00100	"	0.100		115	70-130			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

LCS Dup (P0A2801-BSD1)

Prepared & Analyzed: 01/28/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	7.66	20	
Toluene	0.116	0.00100	"	0.100		116	70-130	5.30	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	11.9	20	
Xylene (p/m)	0.236	0.00200	"	0.200		118	70-130	1.42	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	1.95	20	
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

Calibration Blank (P0A2801-CCB1)

Prepared & Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

Calibration Blank (P0A2801-CCB2)

Prepared & Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	75-125			

Calibration Blank (P0A2801-CCB3)

Prepared & Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Check (P0A2801-CCV1)

Prepared & Analyzed: 01/28/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			

Calibration Check (P0A2801-CCV2)

Prepared & Analyzed: 01/28/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2801 - General Preparation (GC)

Calibration Check (P0A2801-CCV3)

Prepared & Analyzed: 01/28/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Matrix Spike (P0A2801-MS1)

Source: 0A28004-01

Prepared & Analyzed: 01/28/20

Benzene	0.0801	0.00101	mg/kg dry	0.101	ND	79.3	80-120			QM-07
Toluene	0.0830	0.00101	"	0.101	ND	82.2	80-120			
Ethylbenzene	0.0985	0.00101	"	0.101	ND	97.5	80-120			
Xylene (p/m)	0.174	0.00202	"	0.202	ND	86.3	80-120			
Xylene (o)	0.0882	0.00101	"	0.101	ND	87.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.121		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.121		111	75-125			

Matrix Spike Dup (P0A2801-MSD1)

Source: 0A28004-01

Prepared & Analyzed: 01/28/20

Benzene	0.0862	0.00101	mg/kg dry	0.101	ND	85.3	80-120	7.26	20	
Toluene	0.0879	0.00101	"	0.101	ND	87.0	80-120	5.72	20	
Ethylbenzene	0.104	0.00101	"	0.101	ND	103	80-120	5.74	20	
Xylene (p/m)	0.182	0.00202	"	0.202	ND	90.0	80-120	4.14	20	
Xylene (o)	0.0901	0.00101	"	0.101	ND	89.2	80-120	2.07	20	
Surrogate: 1,4-Difluorobenzene	0.128		"	0.121		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.121		107	75-125			

Batch P0A2802 - General Preparation (GC)

Blank (P0A2802-BLK1)

Prepared: 01/28/20 Analyzed: 01/29/20

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	0.115		"	0.120		95.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.8	75-125			

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2802 - General Preparation (GC)

LCS (P0A2802-BS1)

Prepared & Analyzed: 01/28/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Toluene	0.111	0.00100	"	0.100		111	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.237	0.00200	"	0.200		119	70-130			
Xylene (o)	0.107	0.00100	"	0.100		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

LCS Dup (P0A2802-BSD1)

Prepared & Analyzed: 01/28/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	3.77	20	
Toluene	0.115	0.00100	"	0.100		115	70-130	3.07	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	1.72	20	
Xylene (p/m)	0.230	0.00200	"	0.200		115	70-130	2.85	20	
Xylene (o)	0.107	0.00100	"	0.100		107	70-130	0.336	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			

Calibration Blank (P0A2802-CCB1)

Prepared & Analyzed: 01/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	75-125			

Calibration Blank (P0A2802-CCB2)

Prepared: 01/28/20 Analyzed: 01/29/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2802 - General Preparation (GC)

Calibration Check (P0A2802-CCV1)				Prepared & Analyzed: 01/28/20						
Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Calibration Check (P0A2802-CCV2)				Prepared: 01/28/20 Analyzed: 01/29/20						
Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			

Calibration Check (P0A2802-CCV3)				Prepared: 01/28/20 Analyzed: 01/29/20						
Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		117	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			

Matrix Spike (P0A2802-MS1)				Source: 0A28004-25		Prepared: 01/28/20 Analyzed: 01/29/20				
Benzene	0.0948	0.00112	mg/kg dry	0.112	ND	84.4	80-120			
Toluene	0.0998	0.00112	"	0.112	ND	88.8	80-120			
Ethylbenzene	0.118	0.00112	"	0.112	ND	105	80-120			
Xylene (p/m)	0.207	0.00225	"	0.225	ND	92.1	80-120			
Xylene (o)	0.103	0.00112	"	0.112	ND	91.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.144		"	0.135		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.135		110	75-125			

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0A2802 - General Preparation (GC)

Matrix Spike Dup (P0A2802-MSD1)		Source: 0A28004-25		Prepared: 01/28/20		Analyzed: 01/29/20				
Benzene	0.0950	0.00112	mg/kg dry	0.112	ND	84.5	80-120	0.142	20	
Toluene	0.0990	0.00112	"	0.112	ND	88.1	80-120	0.780	20	
Ethylbenzene	0.118	0.00112	"	0.112	ND	105	80-120	0.533	20	
Xylene (p/m)	0.207	0.00225	"	0.225	ND	92.0	80-120	0.0869	20	
Xylene (o)	0.102	0.00112	"	0.112	ND	90.5	80-120	1.01	20	
Surrogate: 4-Bromofluorobenzene	0.146		"	0.135		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.135		104	75-125			

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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
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Batch P0A2918 - * DEFAULT PREP *****

Blank (P0A2918-BLK1)		Prepared & Analyzed: 01/29/20								
% Moisture	ND	0.1	%							
Duplicate (P0A2918-DUP1)		Source: 0A28004-06		Prepared & Analyzed: 01/29/20						
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P0A2918-DUP2)		Source: 0A28006-03		Prepared & Analyzed: 01/29/20						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P0A2918-DUP3)		Source: 0A28007-03		Prepared & Analyzed: 01/29/20						
% Moisture	4.0	0.1	%		5.0			22.2	20	R3

Batch P0B1114 - * DEFAULT PREP *****

Blank (P0B1114-BLK1)		Prepared & Analyzed: 02/11/20								
Chloride	ND	1.00	mg/kg wet							
LCS (P0B1114-BS1)		Prepared & Analyzed: 02/11/20								
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0B1114-BSD1)		Prepared & Analyzed: 02/11/20								
Chloride	412	1.00	mg/kg wet	400		103	80-120	0.0583	20	
Calibration Blank (P0B1114-CCB1)		Prepared & Analyzed: 02/11/20								
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B1114-CCB2)		Prepared: 02/11/20 Analyzed: 02/12/20								
Chloride	0.00		mg/kg wet							

Permian Basin Environmental Lab, L.P.

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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
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Batch P0B1114 - * DEFAULT PREP *****

Calibration Check (P0B1114-CCV1)				Prepared & Analyzed: 02/11/20						
Chloride	19.9		mg/kg	20.0		99.5	0-200			

Calibration Check (P0B1114-CCV2)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	19.5		mg/kg	20.0		97.4	0-200			

Matrix Spike (P0B1114-MS1)				Source: 0A27011-03		Prepared & Analyzed: 02/11/20				
Chloride	4660	11.4	mg/kg dry	1140	3360	115	80-120			

Matrix Spike (P0B1114-MS2)				Source: 0A28001-09		Prepared: 02/11/20 Analyzed: 02/12/20				
Chloride	3430	10.3	mg/kg dry	1030	1670	171	80-120			QM-05

Matrix Spike Dup (P0B1114-MSD1)				Source: 0A27011-03		Prepared & Analyzed: 02/11/20				
Chloride	4740	11.4	mg/kg dry	1140	3360	122	80-120	1.67	20	QM-05

Matrix Spike Dup (P0B1114-MSD2)				Source: 0A28001-09		Prepared: 02/11/20 Analyzed: 02/12/20				
Chloride	2960	10.3	mg/kg dry	1030	1670	125	80-120	14.8	20	QM-05

Batch P0B1115 - * DEFAULT PREP *****

Blank (P0B1115-BLK1)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	ND	1.00	mg/kg wet							

LCS (P0B1115-BS1)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	409	1.00	mg/kg wet	400		102	80-120			

LCS Dup (P0B1115-BSD1)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	400	1.00	mg/kg wet	400		100	80-120	2.14	20	

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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 P0B1115 - *** DEFAULT PREP ***										
Calibration Blank (P0B1115-CCB1)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B1115-CCB2)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0B1115-CCV1)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	19.8		mg/kg	20.0		99.2	0-200			
Calibration Check (P0B1115-CCV2)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	19.1		mg/kg	20.0		95.3	0-200			
Calibration Check (P0B1115-CCV3)				Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	20.2		mg/kg	20.0		101	0-200			
Duplicate (P0B1115-DUP1)		Source: 0A28004-03		Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	122	1.01	mg/kg dry		127			4.01	20	
Duplicate (P0B1115-DUP2)		Source: 0A28004-13		Prepared: 02/11/20 Analyzed: 02/12/20						
Chloride	11.2	1.10	mg/kg dry		18.8			51.1	20	
Batch P0B1205 - *** DEFAULT PREP ***										
Blank (P0B1205-BLK1)				Prepared & Analyzed: 02/12/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0B1205-BS1)				Prepared & Analyzed: 02/12/20						
Chloride	399	1.00	mg/kg wet	400		99.8	80-120			

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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 P0B1205 - *** DEFAULT PREP ***										
LCS Dup (P0B1205-BSD1)				Prepared & Analyzed: 02/12/20						
Chloride	407	1.00	mg/kg wet	400		102	80-120	2.09	20	
Calibration Blank (P0B1205-CCB1)				Prepared & Analyzed: 02/12/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B1205-CCB2)				Prepared & Analyzed: 02/12/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0B1205-CCV1)				Prepared & Analyzed: 02/12/20						
Chloride	18.5		mg/kg	20.0		92.4	0-200			
Calibration Check (P0B1205-CCV2)				Prepared & Analyzed: 02/12/20						
Chloride	18.8		mg/kg	20.0		94.1	0-200			
Matrix Spike (P0B1205-MS1)				Source: 0A28006-01		Prepared & Analyzed: 02/12/20				
Chloride	1590	10.4	mg/kg dry	1040	625	92.9	80-120			
Matrix Spike (P0B1205-MS2)				Source: 0A28006-09		Prepared & Analyzed: 02/12/20				
Chloride	1740	5.62	mg/kg dry	562	1010	129	80-120			QM-05
Matrix Spike Dup (P0B1205-MSD1)				Source: 0A28006-01		Prepared & Analyzed: 02/12/20				
Chloride	1620	10.4	mg/kg dry	1040	625	95.8	80-120	1.85	20	
Matrix Spike Dup (P0B1205-MSD2)				Source: 0A28006-09		Prepared & Analyzed: 02/12/20				
Chloride	1710	5.62	mg/kg dry	562	1010	125	80-120	1.47	20	QM-05

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
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Project Manager: Mark Larson

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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
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Batch P0A2901 - TX 1005

Blank (P0A2901-BLK1)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.3		"	100		80.3	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.7	70-130			

LCS (P0A2901-BS1)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	940	25.0	mg/kg wet	1000		94.0	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

LCS Dup (P0A2901-BSD1)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	799	25.0	mg/kg wet	1000		79.9	75-125	16.2	20	
>C12-C28	912	25.0	"	1000		91.2	75-125	25.5	20	R
Surrogate: 1-Chlorooctane	94.7		"	100		94.7	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.7	70-130			

Calibration Blank (P0A2901-CCB1)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	11.9		mg/kg wet							
>C12-C28	10.8		"							
Surrogate: 1-Chlorooctane	83.0		"	100		83.0	70-130			
Surrogate: o-Terphenyl	44.6		"	50.0		89.3	70-130			

Calibration Blank (P0A2901-CCB2)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	12.3		mg/kg wet							
>C12-C28	24.6		"							
Surrogate: 1-Chlorooctane	86.7		"	100		86.7	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.7	70-130			

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Project: Dagger Lake 551H
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Project Manager: Mark Larson

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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
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Batch P0A2901 - TX 1005

Calibration Check (P0A2901-CCV1)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	471	25.0	mg/kg wet	500		94.2	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.8	70-130			

Calibration Check (P0A2901-CCV2)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	481	25.0	mg/kg wet	500		96.1	85-115			
>C12-C28	456	25.0	"	500		91.2	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			

Calibration Check (P0A2901-CCV3)

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	451	25.0	mg/kg wet	500		90.3	85-115			
>C12-C28	573	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	97.8		"	100		97.8	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.3	70-130			

Matrix Spike (P0A2901-MS1)

Source: 0A28004-07

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	959	29.8	mg/kg dry	1190	20.7	78.8	75-125			
>C12-C28	1170	29.8	"	1190	ND	98.4	75-125			
Surrogate: 1-Chlorooctane	121		"	119		102	70-130			
Surrogate: o-Terphenyl	55.9		"	59.5		93.8	70-130			

Matrix Spike Dup (P0A2901-MSD1)

Source: 0A28004-07

Prepared: 01/29/20 Analyzed: 01/30/20

C6-C12	951	29.8	mg/kg dry	1190	20.7	78.1	75-125	0.870	20	
>C12-C28	1190	29.8	"	1190	ND	100	75-125	1.72	20	
Surrogate: 1-Chlorooctane	121		"	119		102	70-130			
Surrogate: o-Terphenyl	57.1		"	59.5		96.0	70-130			

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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
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Batch P0A2902 - TX 1005

Blank (P0A2902-BLK1)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.8		"	100		98.8	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

LCS (P0A2902-BS1)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	844	25.0	mg/kg wet	1000		84.4	75-125			
>C12-C28	980	25.0	"	1000		98.0	75-125			
Surrogate: 1-Chlorooctane	98.1		"	100		98.1	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.2	70-130			

LCS Dup (P0A2902-BSD1)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	873	25.0	mg/kg wet	1000		87.3	75-125	3.42	20	
>C12-C28	1030	25.0	"	1000		103	75-125	4.46	20	
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.7	70-130			

Calibration Blank (P0A2902-CCB1)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	16.0		mg/kg wet							
>C12-C28	19.2		"							
Surrogate: 1-Chlorooctane	98.6		"	100		98.6	70-130			
Surrogate: o-Terphenyl	54.1		"	50.0		108	70-130			

Calibration Blank (P0A2902-CCB2)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	17.7		mg/kg wet							
>C12-C28	22.2		"							
Surrogate: 1-Chlorooctane	99.2		"	100		99.2	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0A2902 - TX 1005

Calibration Check (P0A2902-CCV1)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	508	25.0	mg/kg wet	500		102	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			

Calibration Check (P0A2902-CCV2)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Calibration Check (P0A2902-CCV3)

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	ND	25.0	mg/kg wet	500			85-115			
>C12-C28	ND	25.0	"	500			85-115			
Surrogate: 1-Chlorooctane	0.00		"	100			70-130			
Surrogate: o-Terphenyl	0.00		"	50.0			70-130			

Matrix Spike (P0A2902-MS1)

Source: 0A28006-02

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	1090	29.1	mg/kg dry	1160	15.6	92.7	75-125			
>C12-C28	1330	29.1	"	1160	20.6	112	75-125			
Surrogate: 1-Chlorooctane	128		"	116		110	70-130			
Surrogate: o-Terphenyl	61.9		"	58.1		107	70-130			

Matrix Spike Dup (P0A2902-MSD1)

Source: 0A28006-02

Prepared: 01/29/20 Analyzed: 01/31/20

C6-C12	1080	29.1	mg/kg dry	1160	15.6	91.4	75-125	1.38	20	
>C12-C28	1300	29.1	"	1160	20.6	110	75-125	1.92	20	
Surrogate: 1-Chlorooctane	130		"	116		112	70-130			
Surrogate: o-Terphenyl	61.8		"	58.1		106	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

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.

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

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:

2/14/2020

Larson & Associates, Inc.

Project: Dagger Lake 551H

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-07

Midland TX, 79710

Project Manager: Mark Larson

Brent Barron, Laboratory Director/Technical Director

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.

Varson & Associates, Inc.
Environmental Consultants
507 N. Marientfield, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/28/20 PO#: 1128120 CHAIN-OF-CUSTODY
PROJECT LOCATION OR NAME: Daguer 551H LAB WORK ORDER#: 0A28004 PAGE 1 OF 2
LAI PROJECT #: 19-0179-0-1 COLLECTOR: Rb

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:

MST

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES		FIELD NOTES
10.1	1	1/27/20	12:30	S	1						☒ BTEX/MTBE ☐ TPH 1005 ☐ TPH 1006 ☐		
10.2	2	1/27/20	12:31	S	1						☒ TRPH 418.1 ☐ GASOLINE MOD 8015 ☒ DIESEL MOD 8015 ☒ OIL MOD 8015 ☒ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐		
10.3	3	1/27/20	12:32	S	1						☒ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐		
10.4	4	1/27/20	12:33	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
10.5	5	1/27/20	12:34	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
10.6	6	1/27/20	12:35	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
10.7	7	1/27/20	12:36	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
10.8	8	1/27/20	12:37	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
10.9	9	1/27/20	12:38	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.1	10	1/27/20	12:39	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.2	11	1/27/20	12:40	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.3	12	1/27/20	12:41	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.4	13	1/27/20	12:42	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.5	14	1/27/20	12:43	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.6	15	1/27/20	12:44	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
11.7	16	1/27/20	12:45	S	1						☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐ TBLP - METALS (RCRA) ☐		
TOTAL	15												

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 1/28 9:10 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 1/28 9:10 RECEIVED BY: (Signature) [Signature]

LABORATORY: P&A PATIENT: 1/28 9:10 RECEIVED BY: (Signature) [Signature]

TURN AROUND TIME: 1 DAY LABORATORY USE ONLY: 24-34

RECEIVING TEMP: 24-34 THERM#:

CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED

CARRIER BILL #:

LAB AND DELIVERED:

**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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0B27004



NELAP/TCEQ # T104704516-18-9

Report Date: 03/03/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
15.3	0B27004-01	Soil	02/26/20 00:00	02-27-2020 15:51
3.2	0B27004-02	Soil	02/26/20 00:00	02-27-2020 15:51
4.2	0B27004-03	Soil	02/26/20 00:00	02-27-2020 15:51
4.3	0B27004-04	Soil	02/26/20 00:00	02-27-2020 15:51
4.5	0B27004-05	Soil	02/26/20 00:00	02-27-2020 15:51
3.7	0B27004-07	Soil	02/27/20 00:00	02-27-2020 15:51
3.8	0B27004-08	Soil	02/27/20 00:00	02-27-2020 15:51
5.8	0B27004-09	Soil	02/27/20 00:00	02-27-2020 15:51
5.9	0B27004-10	Soil	02/27/20 00:00	02-27-2020 15:51
5.10	0B27004-11	Soil	02/27/20 00:00	02-27-2020 15:51
5.11	0B27004-12	Soil	02/27/20 00:00	02-27-2020 15:51
5.12	0B27004-13	Soil	02/27/20 00:00	02-27-2020 15:51
5.13	0B27004-14	Soil	02/27/20 00:00	02-27-2020 15:51
5.14	0B27004-15	Soil	02/27/20 00:00	02-27-2020 15:51
17.3	0B27004-16	Soil	02/27/20 00:00	02-27-2020 15:51
11.7	0B27004-17	Soil	02/27/20 00:00	02-27-2020 15:51
11.10	0B27004-18	Soil	02/27/20 00:00	02-27-2020 15:51
11.13	0B27004-19	Soil	02/27/20 00:00	02-27-2020 15:51
11.14	0B27004-20	Soil	02/27/20 00:00	02-27-2020 15:51
11.15	0B27004-21	Soil	02/27/20 00:00	02-27-2020 15:51
11.17	0B27004-22	Soil	02/27/20 00:00	02-27-2020 15:51

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

15.3

0B27004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	169	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	32.4	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.4	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.2

0B27004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	314	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	28.6	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.6	25.5	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.2

0B27004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	41.9	1.03	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.3

0B27004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.4	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

4.5

0B27004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.0	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.7

0B27004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	37.1	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C12-C28	31.1	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
>C28-C35	29.0	25.5	mg/kg dry	1	P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0B2805	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	60.1	25.5	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

3.8

0B27004-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	310	1.10	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	54.8	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	54.8	27.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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5.8

0B27004-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	470	1.04	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	51.5	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	26.2	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		74.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	77.7	26.0	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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5.9

0B27004-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	259	1.02	mg/kg dry	1	P0B2706	02/27/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.1	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.3 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		71.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	45.1	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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5.10

0B27004-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.3 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	34.0	1.01	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	45.0	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		73.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	45.0	25.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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5.11

0B27004-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	146	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	25.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	25.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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5.12

0B27004-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.1	1.04	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.5 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		84.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: 19-0179-07
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5.13

0B27004-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.8 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.9 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.2	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	28.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.7 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		88.9 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

5.14

0B27004-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.5 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	85.2	1.02	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.6	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27.6	25.5	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

17.3

0B27004-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	752	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.6	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	56.7	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	84.3	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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11.7
0B27004-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P0B2803	02/28/20	02/28/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	78.5	1.01	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.10

0B27004-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.69	1.03	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.10

0B27004-18RE1 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/03/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P0C0201	03/02/20	03/03/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %	80-120		P0C0201	03/02/20	03/03/20	EPA 8021B	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.13
0B27004-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.5	1.08	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	29.2	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		98.4 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.2	26.9	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.14

0B27004-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.8	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	35.8	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35.8	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.15
0B27004-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.5 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	119	1.05	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-130		P0B2805	02/28/20	03/02/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	02/28/20	03/02/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

11.17

0B27004-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	80-120		P0C0201	03/02/20	03/02/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12.8	1.09	mg/kg dry	1	P0B2801	02/28/20	02/28/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0B2802	02/28/20	02/28/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
>C28-C35	29.5	27.2	mg/kg dry	1	P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0B2806	02/28/20	02/28/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0B2806	02/28/20	02/28/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.5	27.2	mg/kg dry	1	[CALC]	02/28/20	02/28/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Blank (P0B2803-BLK1)

Prepared & Analyzed: 02/28/20

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	0.112		"	0.120		93.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.0	75-125			

LCS (P0B2803-BS1)

Prepared & Analyzed: 02/28/20

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.0966	0.00100	"	0.100		96.6	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130			
Xylene (o)	0.102	0.00100	"	0.100		102	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			

LCS Dup (P0B2803-BSD1)

Prepared & Analyzed: 02/28/20

Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130	13.7	20	
Toluene	0.111	0.00100	"	0.100		111	70-130	13.5	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	7.25	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	12.0	20	
Xylene (o)	0.117	0.00100	"	0.100		117	70-130	13.4	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			

Calibration Blank (P0B2803-CCB1)

Prepared & Analyzed: 02/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Blank (P0B2803-CCB2)

Prepared & Analyzed: 02/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.6	75-125			

Calibration Blank (P0B2803-CCB3)

Prepared & Analyzed: 02/28/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		97.1	75-125			

Calibration Check (P0B2803-CCV1)

Prepared & Analyzed: 02/28/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Check (P0B2803-CCV2)

Prepared & Analyzed: 02/28/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0B2803 - General Preparation (GC)

Calibration Check (P0B2803-CCV3)		Prepared & Analyzed: 02/28/20								
Benzene	0.0968	0.00100	mg/kg wet	0.100		96.8	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.0987	0.00100	"	0.100		98.7	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.3	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			

Matrix Spike (P0B2803-MS1)		Source: 0B26011-01		Prepared & Analyzed: 02/28/20						
Benzene	0.126	0.00120	mg/kg dry	0.120	0.0490	63.7	80-120			QM-07
Toluene	0.0990	0.00120	"	0.120	0.0281	58.8	80-120			QM-07
Ethylbenzene	0.0990	0.00120	"	0.120	0.0154	69.4	80-120			QM-07
Xylene (p/m)	0.198	0.00241	"	0.241	0.0497	61.5	80-120			QM-07
Xylene (o)	0.0682	0.00120	"	0.120	0.0308	31.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.135		"	0.145		93.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.168		"	0.145		116	75-125			

Matrix Spike Dup (P0B2803-MSD1)		Source: 0B26011-01		Prepared & Analyzed: 02/28/20						
Benzene	0.116	0.00120	mg/kg dry	0.120	0.0490	55.6	80-120	13.5	20	QM-07
Toluene	0.0961	0.00120	"	0.120	0.0281	56.5	80-120	4.06	20	QM-07
Ethylbenzene	0.0822	0.00120	"	0.120	0.0154	55.5	80-120	22.3	20	QM-07
Xylene (p/m)	0.181	0.00241	"	0.241	0.0497	54.5	80-120	11.9	20	QM-07
Xylene (o)	0.0694	0.00120	"	0.120	0.0308	32.0	80-120	3.33	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.101		"	0.145		69.7	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.129		"	0.145		89.2	75-125			

Batch P0C0201 - General Preparation (GC)

Blank (P0C0201-BLK1)		Prepared & Analyzed: 03/02/20								
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0201 - General Preparation (GC)

LCS (P0C0201-BS1)

Prepared & Analyzed: 03/02/20

Benzene	0.0949	0.00100	mg/L	0.100		94.9	80-120			
Toluene	0.0950	0.00100	"	0.100		95.0	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

LCS Dup (P0C0201-BS1)

Prepared & Analyzed: 03/02/20

Benzene	0.110	0.00100	mg/L	0.100		110	80-120	14.9	20	
Toluene	0.109	0.00100	"	0.100		109	80-120	13.9	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	14.1	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	80-120	14.1	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	14.4	20	
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			

Calibration Blank (P0C0201-CCB1)

Prepared & Analyzed: 03/02/20

Benzene	0.00		mg/L							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	80-120			

Calibration Check (P0C0201-CCV1)

Prepared & Analyzed: 03/02/20

Benzene	0.0985	0.00100	mg/L	0.100		98.5	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C0201 - General Preparation (GC)

Calibration Check (P0C0201-CCV2)				Prepared & Analyzed: 03/02/20						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	80-120			

Matrix Spike (P0C0201-MS1)				Source: 0C02019-01		Prepared & Analyzed: 03/02/20				
Benzene	0.111	0.00100	mg/L	0.100	0.0596	51.6	80-120			QM-07
Toluene	0.382	0.00100	"	0.100	0.309	72.6	80-120			QM-07
Ethylbenzene	0.376	0.00100	"	0.100	0.270	107	80-120			
Xylene (p/m)	0.654	0.00200	"	0.200	0.459	97.8	80-120			
Xylene (o)	0.279	0.00100	"	0.100	0.187	92.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.2	80-120			

Matrix Spike Dup (P0C0201-MSD1)				Source: 0C02019-01		Prepared & Analyzed: 03/02/20				
Benzene	0.174	0.00100	mg/L	0.100	0.0596	115	80-120	75.9	20	QM-07
Toluene	0.370	0.00100	"	0.100	0.309	60.6	80-120	17.9	20	QM-07
Ethylbenzene	0.361	0.00100	"	0.100	0.270	91.0	80-120	15.8	20	
Xylene (p/m)	0.620	0.00200	"	0.200	0.459	80.6	80-120	19.2	20	
Xylene (o)	0.269	0.00100	"	0.100	0.187	82.0	80-120	11.4	20	
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Permian Basin Environmental Lab, L.P.

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Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B2706 - * DEFAULT PREP *****

Blank (P0B2706-BLK1)

Prepared & Analyzed: 02/27/20

Chloride	ND	1.00	mg/kg wet
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LCS (P0B2706-BS1)

Prepared & Analyzed: 02/27/20

Chloride	401	1.00	mg/kg wet	400	100	80-120
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LCS Dup (P0B2706-BSD1)

Prepared & Analyzed: 02/27/20

Chloride	397	1.00	mg/kg wet	400	99.1	80-120	1.09	20
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Calibration Blank (P0B2706-CCB1)

Prepared & Analyzed: 02/27/20

Chloride	0.00		mg/kg wet
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Calibration Check (P0B2706-CCV1)

Prepared & Analyzed: 02/27/20

Chloride	17.4		mg/kg	20.0	87.2	0-200
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Calibration Check (P0B2706-CCV2)

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	17.6		mg/kg	20.0	88.1	0-200
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Calibration Check (P0B2706-CCV3)

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	19.3		mg/kg	20.0	96.4	0-200
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Matrix Spike (P0B2706-MS1)

Source: 0B26007-13

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	10300	26.9	mg/kg dry	2690	7570	101	80-120
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Matrix Spike Dup (P0B2706-MSD1)

Source: 0B26007-13

Prepared: 02/27/20 Analyzed: 02/28/20

Chloride	10500	26.9	mg/kg dry	2690	7570	109	80-120	1.98	20
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Batch P0B2801 - * DEFAULT PREP *****

Blank (P0B2801-BLK1)

Prepared & Analyzed: 02/28/20

Chloride	ND	1.00	mg/kg wet
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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 P0B2801 - *** DEFAULT PREP ***										
LCS (P0B2801-BS1)				Prepared & Analyzed: 02/28/20						
Chloride	481	1.00	mg/kg wet	420		114	80-120			
LCS Dup (P0B2801-BSD1)				Prepared & Analyzed: 02/28/20						
Chloride	487	1.00	mg/kg wet	420		116	80-120	1.26	20	
Calibration Blank (P0B2801-CCB1)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Blank (P0B2801-CCB2)				Prepared & Analyzed: 02/28/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0B2801-CCV1)				Prepared & Analyzed: 02/28/20						
Chloride	22.3		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV2)				Prepared & Analyzed: 02/28/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P0B2801-CCV3)				Prepared & Analyzed: 02/28/20						
Chloride	24.1		mg/kg	20.0		120	0-200			
Matrix Spike (P0B2801-MS1)				Source: 0B28001-02	Prepared & Analyzed: 02/28/20					
Chloride	3980	11.8	mg/kg dry	1180	2740	105	80-120			
Matrix Spike Dup (P0B2801-MSD1)				Source: 0B28001-02	Prepared & Analyzed: 02/28/20					
Chloride	3950	11.8	mg/kg dry	1180	2740	103	80-120	0.549	20	
Batch P0B2802 - *** DEFAULT PREP ***										
Blank (P0B2802-BLK1)				Prepared & Analyzed: 02/28/20						
% Moisture	ND	0.1	%							

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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
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Batch P0B2802 - * DEFAULT PREP *****

Duplicate (P0B2802-DUP1)	Source: 0B26012-07			Prepared & Analyzed: 02/28/20						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P0B2802-DUP2)	Source: 0B27004-22			Prepared & Analyzed: 02/28/20						
% Moisture	8.0	0.1	%		8.0			0.00	20	

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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
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Batch P0B2805 - TX 1005

Blank (P0B2805-BLK1)

Prepared & Analyzed: 02/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

LCS (P0B2805-BS1)

Prepared & Analyzed: 02/28/20

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

LCS Dup (P0B2805-BSD1)

Prepared & Analyzed: 02/28/20

C6-C12	975	25.0	mg/kg wet	1000		97.5	75-125	4.60	20	
>C12-C28	1100	25.0	"	1000		110	75-125	1.31	20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Calibration Blank (P0B2805-CCB1)

Prepared & Analyzed: 02/28/20

C6-C12	16.6		mg/kg wet							
>C12-C28	21.4		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.3		"	50.0		121	70-130			

Calibration Blank (P0B2805-CCB2)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	24.3		mg/kg wet							
>C12-C28	19.9		"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	49.8		"	50.0		99.7	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B2805 - TX 1005

Calibration Check (P0B2805-CCV1)

Prepared & Analyzed: 02/28/20

C6-C12	544	25.0	mg/kg wet	500		109	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			

Calibration Check (P0B2805-CCV2)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	566	25.0	mg/kg wet	500		113	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	54.3		"	50.0		109	70-130			

Calibration Check (P0B2805-CCV3)

Prepared: 02/28/20 Analyzed: 03/02/20

C6-C12	570	25.0	mg/kg wet	500		114	85-115			
>C12-C28	562	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			

Batch P0B2806 - TX 1005

Blank (P0B2806-BLK1)

Prepared & Analyzed: 02/28/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.3		"	50.0		129	70-130			

LCS (P0B2806-BS1)

Prepared & Analyzed: 02/28/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	58.1		"	50.0		116	70-130			

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B2806 - TX 1005

LCS Dup (P0B2806-BSD1)

Prepared & Analyzed: 02/28/20

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	0.385	20	
>C12-C28	1120	25.0	"	1000		112	75-125	1.77	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Calibration Blank (P0B2806-CCB1)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	17.8		"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	64.6		"	50.0		129	70-130			

Calibration Blank (P0B2806-CCB2)

Prepared & Analyzed: 02/28/20

C6-C12	14.0		mg/kg wet							
>C12-C28	6.78		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			

Calibration Check (P0B2806-CCV1)

Prepared & Analyzed: 02/28/20

C6-C12	535	25.0	mg/kg wet	500		107	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	61.6		"	50.0		123	70-130			

Calibration Check (P0B2806-CCV2)

Prepared & Analyzed: 02/28/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	60.5		"	50.0		121	70-130			

Permian Basin Environmental Lab, L.P.

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0B2806 - TX 1005

Calibration Check (P0B2806-CCV3)

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	517	25.0	mg/kg wet	500		103	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	60.9		"	50.0		122	70-130			

Matrix Spike (P0B2806-MS1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1030	27.2	mg/kg dry	1090	15.7	93.1	75-125			
>C12-C28	1100	27.2	"	1090	24.2	99.3	75-125			
Surrogate: 1-Chlorooctane	119		"	109		109	70-130			
Surrogate: o-Terphenyl	64.2		"	54.3		118	70-130			

Matrix Spike Dup (P0B2806-MSD1)

Source: 0B27004-22

Prepared: 02/28/20 Analyzed: 02/29/20

C6-C12	1120	27.2	mg/kg dry	1090	15.7	102	75-125	8.61	20	
>C12-C28	1210	27.2	"	1090	24.2	109	75-125	9.14	20	
Surrogate: 1-Chlorooctane	127		"	109		116	70-130			
Surrogate: o-Terphenyl	61.0		"	54.3		112	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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.

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:

3/3/2020

Brent Barron, Laboratory Director/Technical Director

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.

Permian Basin Environmental Lab, L.P.

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

Larson & Associates, Inc.

Project: Dagger Lake 551H

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-07

Midland TX, 79710

Project Manager: Mark Larson

Marson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 2/23/2020 PO#: LAB WORK ORDER# 0621004
PROJECT LOCATION OR NAME: Dagger Lake 551H
LAI PROJECT #: 19-0179-04 COLLECTOR: PO

CHAIN-OF-CUSTODY

No 0981

Page 40 of 40

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			UNPRESERVED
17.3	16			S	1							
11.7	17			S	1							
11.10	18			S	1							
11.13	19			S	1							
11.14	20			S	1							
11.15	21			S	1							
11.17	22			S	1							
TOTAL					7							

RELINQUISHED BY: (Signature) 2/23/2020 15:54 DATE/TIME: 15:54

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____

LABORATORY: 98EL

RECEIVED BY: (Signature) _____ DATE/TIME: _____

RECEIVED BY: (Signature) _____ DATE/TIME: _____

RECEIVED BY: (Signature) _____ DATE/TIME: _____

TURN AROUND TIME
NORMAL 3 days
1 DAY 1 day
2 DAY 2 days
OTHER 1 day

LABORATORY USE ONLY: RECEIVING TEMP: 10.11.2 THERM#: 054

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL # _____

☐ HAND DELIVERED

**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 551H
Project Number: 19-0179-07
Location: NM

Lab Order Number: 0C16003



NELAP/TCEQ # T104704516-18-9

Report Date: 03/24/20

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF-CAL-1	0C16003-01	Soil	03/16/20 11:09	03-16-2020 15:45
BF-CAL-2	0C16003-02	Soil	03/16/20 11:10	03-16-2020 15:45
BF-CAL-3	0C16003-03	Soil	03/16/20 11:12	03-16-2020 15:45
BF-CAL-4	0C16003-04	Soil	03/16/20 11:16	03-16-2020 15:45
BF-CAL-5	0C16003-05	Soil	03/16/20 11:17	03-16-2020 15:45
BF-CAL-6	0C16003-06	Soil	03/16/20 11:20	03-16-2020 15:45
BF-CAL-7	0C16003-07	Soil	03/16/20 11:20	03-16-2020 15:45
BF-CAL-8	0C16003-08	Soil	03/16/20 11:23	03-16-2020 15:45
BF-TS-1	0C16003-09	Soil	03/16/20 11:00	03-16-2020 15:45
BF-TS-2	0C16003-10	Soil	03/16/20 11:01	03-16-2020 15:45
BF-TS-3	0C16003-11	Soil	03/16/20 11:02	03-16-2020 15:45
BF-TS-4	0C16003-12	Soil	03/16/20 11:03	03-16-2020 15:45
BF-TS-5	0C16003-13	Soil	03/16/20 11:04	03-16-2020 15:45
BF-TS-6	0C16003-14	Soil	03/16/20 11:05	03-16-2020 15:45
BF-TS-7	0C16003-15	Soil	03/16/20 11:06	03-16-2020 15:45
BF-TS-8	0C16003-16	Soil	03/16/20 11:07	03-16-2020 15:45
BF-TS-9	0C16003-17	Soil	03/16/20 11:08	03-16-2020 15:45

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-1
0C16003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	POC1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		POC1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		POC1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	162	1.02	mg/kg dry	1	POC1904	03/19/20	03/20/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	POC1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	POC1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	POC1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	POC1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		POC1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		POC1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-2
0C16003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2100	10.2	mg/kg dry	10	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	25.5	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-3
0C16003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	884	5.05	mg/kg dry	5	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		130 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

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Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-4
0C16003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	198	5.15	mg/kg dry	5	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-5
0C16003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	548	5.10	mg/kg dry	5	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-6
0C16003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	91.9	1.04	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-7
0C16003-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	166	1.03	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-CAL-8
0C16003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.5	1.00	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	25.9	25.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	25.9	25.0	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-1
0C16003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	33.7	1.09	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	29.4	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	29.4	27.2	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-2
0C16003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.9	1.11	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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P.O. Box 50685
Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-3
0C16003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.59	1.09	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-4
0C16003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.0	1.11	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	31.0	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	31.0	27.8	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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BF-TS-5
0C16003-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.57	1.06	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-6
0C16003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.34	1.06	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	26.8	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.8	26.6	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-7
0C16003-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.9	1.06	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.2	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	27.2	26.6	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Larson & Associates, Inc.
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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-8
0C16003-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.53	1.06	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.5	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		141 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	27.5	26.6	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

BF-TS-9
0C16003-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-125		P0C1703	03/17/20	03/17/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.03	1.09	mg/kg dry	1	P0C1905	03/19/20	03/20/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0C1702	03/17/20	03/17/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P0C1704	03/17/20	03/17/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	03/17/20	03/17/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Blank (P0C1703-BLK1)

Prepared & Analyzed: 03/17/20

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	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			

LCS (P0C1703-BS1)

Prepared & Analyzed: 03/17/20

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	70-130			
Toluene	0.0981	0.00100	"	0.100		98.1	70-130			
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130			
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130			
Xylene (o)	0.103	0.00100	"	0.100		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			

LCS Dup (P0C1703-BSD1)

Prepared & Analyzed: 03/17/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130	8.34	20	
Toluene	0.107	0.00100	"	0.100		107	70-130	8.74	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	5.24	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	10.4	20	
Xylene (o)	0.115	0.00100	"	0.100		115	70-130	11.3	20	
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Calibration Blank (P0C1703-CCB1)

Prepared & Analyzed: 03/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.590		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.6	75-125			

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Calibration Blank (P0C1703-CCB2)

Prepared & Analyzed: 03/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	75-125			

Calibration Check (P0C1703-CCV1)

Prepared & Analyzed: 03/17/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.0968	0.00100	"	0.100		96.8	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.0	80-120			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P0C1703-CCV2)

Prepared & Analyzed: 03/17/20

Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	75-125			

Calibration Check (P0C1703-CCV3)

Prepared & Analyzed: 03/17/20

Benzene	0.0979	0.00100	mg/kg wet	0.100		97.9	80-120			
Toluene	0.0967	0.00100	"	0.100		96.7	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C1703 - General Preparation (GC)

Matrix Spike (P0C1703-MS1)		Source: 0C16003-01			Prepared & Analyzed: 03/17/20					
Benzene	0.0754	0.00102	mg/kg dry	0.102	ND	73.9	80-120			QM-07
Toluene	0.0739	0.00102	"	0.102	ND	72.5	80-120			QM-07
Ethylbenzene	0.0894	0.00102	"	0.102	ND	87.6	80-120			
Xylene (p/m)	0.152	0.00204	"	0.204	ND	74.4	80-120			QM-07
Xylene (o)	0.0752	0.00102	"	0.102	ND	73.7	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.122		107	75-125			

Matrix Spike Dup (P0C1703-MSD1)		Source: 0C16003-01			Prepared & Analyzed: 03/17/20					
Benzene	0.0831	0.00102	mg/kg dry	0.102	ND	81.4	80-120	9.62	20	
Toluene	0.0823	0.00102	"	0.102	ND	80.7	80-120	10.7	20	
Ethylbenzene	0.0987	0.00102	"	0.102	ND	96.7	80-120	9.90	20	
Xylene (p/m)	0.169	0.00204	"	0.204	ND	82.7	80-120	10.5	20	
Xylene (o)	0.0840	0.00102	"	0.102	ND	82.3	80-120	11.0	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.122		98.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.122		109	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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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 P0C1702 - *** DEFAULT PREP ***										
Blank (P0C1702-BLK1)	Prepared & Analyzed: 03/17/20									
% Moisture	ND	0.1	%							
Duplicate (P0C1702-DUP1)	Source: 0C13009-13 Prepared & Analyzed: 03/17/20									
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P0C1702-DUP2)	Source: 0C16002-01 Prepared & Analyzed: 03/17/20									
% Moisture	9.0	0.1	%		9.0			0.00	20	
Batch P0C1904 - *** DEFAULT PREP ***										
LCS (P0C1904-BS1)	Prepared & Analyzed: 03/19/20									
Chloride	399	1.00	mg/kg wet	400		99.8	80-120			
LCS Dup (P0C1904-BSD1)	Prepared & Analyzed: 03/19/20									
Chloride	398	1.00	mg/kg wet	400		99.5	80-120	0.303	20	
Calibration Check (P0C1904-CCV1)	Prepared & Analyzed: 03/19/20									
Chloride	19.9		mg/kg	20.0		99.5	0-200			
Calibration Check (P0C1904-CCV2)	Prepared: 03/19/20 Analyzed: 03/20/20									
Chloride	20.3		mg/kg	20.0		101	0-200			
Matrix Spike (P0C1904-MS1)	Source: 0C13004-01 Prepared & Analyzed: 03/19/20									
Chloride	7620	11.6	mg/kg dry	233	7380	104	80-120			
Matrix Spike (P0C1904-MS2)	Source: 0C13009-06 Prepared: 03/19/20 Analyzed: 03/20/20									
Chloride	3570	5.88	mg/kg dry	235	5690	NR	80-120			QM-07

Permian Basin Environmental Lab, L.P.

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Midland TX, 79710

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

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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 P0C1904 - *** DEFAULT PREP ***										
Matrix Spike Dup (P0C1904-MSD1)		Source: 0C13004-01			Prepared & Analyzed: 03/19/20					
Chloride	7640	11.6	mg/kg dry	233	7380	110	80-120	0.200	20	
Matrix Spike Dup (P0C1904-MSD2)		Source: 0C13009-06			Prepared: 03/19/20 Analyzed: 03/20/20					
Chloride	6900	11.8	mg/kg dry	235	5690	515	80-120	63.6	20	R3, QM-07
Batch P0C1905 - *** DEFAULT PREP ***										
Blank (P0C1905-BLK1)				Prepared: 03/19/20 Analyzed: 03/20/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0C1905-BS1)				Prepared: 03/19/20 Analyzed: 03/20/20						
Chloride	414	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P0C1905-BSD1)				Prepared: 03/19/20 Analyzed: 03/20/20						
Chloride	409	1.00	mg/kg wet	400		102	80-120	1.18	20	
Calibration Blank (P0C1905-CCB1)				Prepared: 03/19/20 Analyzed: 03/20/20						
Chloride	0.00		mg/kg wet							
Calibration Check (P0C1905-CCV1)				Prepared: 03/19/20 Analyzed: 03/20/20						
Chloride	20.5		mg/kg	20.0		103	0-200			
Matrix Spike (P0C1905-MS1)		Source: 0C16003-02			Prepared: 03/19/20 Analyzed: 03/20/20					
Chloride	6080	10.2	mg/kg dry	1020	2100	391	80-120	QM-05		
Matrix Spike (P0C1905-MS2)		Source: 0C17001-01			Prepared: 03/19/20 Analyzed: 03/20/20					
Chloride	23400	30.9	mg/kg dry	3090	8400	487	80-120	QM-05		

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0C1905 - * DEFAULT PREP *****

Matrix Spike Dup (P0C1905-MSD1)		Source: 0C16003-02		Prepared: 03/19/20		Analyzed: 03/20/20				
Chloride	6230	10.2	mg/kg dry	1020	2100	405	80-120	2.45	20	QM-05
Matrix Spike Dup (P0C1905-MSD2)		Source: 0C17001-01		Prepared: 03/19/20		Analyzed: 03/20/20				
Chloride	21800	30.9	mg/kg dry	3090	8400	433	80-120	7.40	20	QM-05

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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
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Batch P0C1704 - TX 1005

Blank (P0C1704-BLK1)

Prepared & Analyzed: 03/17/20

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	66.7		"	50.0		133	70-130			S-GC

LCS (P0C1704-BS1)

Prepared & Analyzed: 03/17/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1200	25.0	"	1000		120	75-125			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	60.6		"	50.0		121	70-130			

LCS Dup (P0C1704-BSD1)

Prepared & Analyzed: 03/17/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	0.436	20	
>C12-C28	1210	25.0	"	1000		121	75-125	0.323	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	59.9		"	50.0		120	70-130			

Calibration Blank (P0C1704-CCB1)

Prepared & Analyzed: 03/17/20

C6-C12	23.5		mg/kg wet							
>C12-C28	7.47		"							
Surrogate: 1-Chlorooctane	129		"	100		129	70-130			
Surrogate: o-Terphenyl	69.7		"	50.0		139	70-130			S-GC

Calibration Blank (P0C1704-CCB2)

Prepared & Analyzed: 03/17/20

C6-C12	24.5		mg/kg wet							
>C12-C28	12.4		"							
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	70.9		"	50.0		142	70-130			S-GC

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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 P0C1704 - TX 1005										
Calibration Check (P0C1704-CCV1)				Prepared & Analyzed: 03/17/20						
C6-C12	530	25.0	mg/kg wet	500		106	85-115			
>C12-C28	530	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	65.0		"	50.0		130	70-130			
Calibration Check (P0C1704-CCV2)				Prepared & Analyzed: 03/17/20						
C6-C12	529	25.0	mg/kg wet	500		106	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	64.2		"	50.0		128	70-130			
Calibration Check (P0C1704-CCV3)				Prepared & Analyzed: 03/17/20						
C6-C12	540	25.0	mg/kg wet	500		108	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	68.8		"	50.0		138	70-130			S-GC
Matrix Spike (P0C1704-MS1)				Source: 0C16003-17	Prepared & Analyzed: 03/17/20					
C6-C12	841	27.2	mg/kg dry	1090	23.3	75.3	75-125			
>C12-C28	841	27.2	"	1090	14.8	76.0	75-125			
Surrogate: 1-Chlorooctane	91.2		"	109		83.9	70-130			
Surrogate: o-Terphenyl	44.2		"	54.3		81.3	70-130			
Matrix Spike Dup (P0C1704-MSD1)				Source: 0C16003-17	Prepared & Analyzed: 03/17/20					
C6-C12	982	27.2	mg/kg dry	1090	23.3	88.2	75-125	15.8	20	
>C12-C28	926	27.2	"	1090	14.8	83.8	75-125	9.80	20	
Surrogate: 1-Chlorooctane	132		"	109		121	70-130			
Surrogate: o-Terphenyl	71.6		"	54.3		132	70-130			S-GC

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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.

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:

3/24/2020

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.

Project: Dagger Lake 551H

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 19-0179-07

Midland TX, 79710

Project Manager: Mark Larson

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.

Environmental Consultants

507 N. Marienfeld, Ste. 200

Midland, TX 79701

432-687-0901

Data Reported to:

DATE: 3/16/2020 PAGE 1
PO#: _____ LAB WORK ORDER#: 0616003
PROJECT LOCATION OR NAME: Daguer Lake 5514
LAI PROJECT #: 19-0179-07 COLLECTOR: AS/ECG

PAGE 1 OF 2
0016003

Page 30 of 31

TRRP report?					
☐ Yes ☒ No					
TIME ZONE: Time zone/State:					
MST / AZW					
Field Sample I.D.					
S=SOIL W=WATER A=AIR	P-PAINT SL-SLUDGE OT-OTHER	Lab #	Date	Time	Matrix
Bf-CAL-1	1	3/16/20	1109	S	1
Bf-CAL-2	2		1110	X	X
Bf-CAL-3	3		1112	X	X
Bf-CAL-4	4		1116	X	X
Bf-CAL-5	5		1117	X	X
Bf-CAL-6	6		1120		
Bf-CAL-7	7		1120		
Bf-CAL-8	8		1123		
Bf-TS-1	9		1100		
Bf-TS-2	10		1101		
Bf-TS-3	11		1102		
Bf-TS-4	12		1103		
Bf-TS-5	13		1104		
Bf-TS-6	14		1105		
Bf-TS-7	15		1106		
TOTAL 15					
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
LABORATORY: PBEL					
DATE/TIME RECEIVED BY: (Signature)					
DATE/TIME RECEIVED BY: (Signature)					
TURN AROUND TIME NORMAL ☒					
1 DAY ☐					
2 DAY ☐					
OTHER ☐					
LABORATORY USE ONLY:					
RECEIVING TEMP: 37.1 THERM#:					
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED					
CARRIER BILL #					
HAND DELIVERED					
PRESERVATION HCl HNO ₃ H ₂ SO ₄ NaOH ICE UNPRESSED					
ANALYSES BTEX MTBE TPH 418.1 TPH 1005 TPH 1006 GASOLINE MOD 8015 DIESEL - MOD 8015 OIL - MOD 8015 VOC 8260 SVOC 8270 PAH 8270 HOLDPAH 8081 PESTICIDES 8151 HERBICIDES TCLP - METALS (RCRA) TCLP VOC Semi-VOC TCLP - PEST HERB OTHER LIST TOTAL METALS (RCRA) D.W. 200.8 TCLP LEAD - TOTAL FLASHPOINT RCI TOX % MOISTURE CYANIDE TDS TSS HEXVALENT CHROMIUM PECHLORATE PH EXPLOSIVES ANIONS ALKALINITY FIELD NOTES					

Aarson & Associates, Inc.
Environmental Consultants

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

CHAIN-OF-CUSTODY

DATE: 3/16/2020 PAGE 2 OF 2
PO#: _____ LAB WORK ORDER#: 0216003
PROJECT LOCATION OR NAME: Dwyer Lake 551H
LAI PROJECT #: 19-0179-07 COLLECTOR: DS/EC

Data Reported to:

TRRP report? ☐ Yes ☒ No
TIME ZONE: _____
Time zone/State: _____

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

MST/DM

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐ TPH 1005 ☐ TPH 1006 ☐
TRPH 418.1 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐
OIL - MOD 8015 ☐ VOC 8280 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐
8081 PESTICIDES ☐ 8161 HERBICIDES ☐ TBLP - METALS (RCRA) ☐ TCLP - METALS (RCRA) ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐
TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ FLASHPOINT ☐ TDS ☐ TOX ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐
PH ☐ HEXAVALENT CHROMIUM ☐ PCHLORATE ☐ EXPLOSIVES ☐ ANIONS ☐ ALKALINITY ☐ CHLORIDE ☐

FIELD NOTES

BF-TS-8
BF-TS-9

16
17

3/16/20
1

1107
1108

S
L

TOTAL 2

RELINQUISHED BY: (Signature)

DATE/TIME 03-16-20/1545

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 39.4 THERM#: _____
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: PBEL

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY:

RECEIVING TEMP:

CUSTODY SEALS:

CARRIER BILL #

HAND DELIVERED

**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 551H

Project Number: 19-0179-07

Location: New Mexico

Lab Order Number: 0C25001



NELAP/TCEQ # T104704516-18-9

Report Date: 03/27/20

Larson & Associates, Inc.	Project: Dagger Lake 551H	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0179-07	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
7.4	0C25001-01	Soil	03/24/20 13:00	03-25-2020 08:43

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

7.4

0C25001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P0C2602	03/26/20	03/26/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0C2602	03/26/20	03/26/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0C2602	03/26/20	03/26/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0C2602	03/26/20	03/26/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0C2602	03/26/20	03/26/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0C2602	03/26/20	03/26/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.7 %	75-125		P0C2602	03/26/20	03/26/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	99.6	1.02	mg/kg dry	1	P0C2502	03/25/20	03/26/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0C2601	03/26/20	03/26/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0C2504	03/25/20	03/25/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0C2504	03/25/20	03/25/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0C2504	03/25/20	03/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P0C2504	03/25/20	03/25/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0C2504	03/25/20	03/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	03/25/20	03/25/20	calc	

Permian Basin Environmental Lab, L.P.

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C2602 - General Preparation (GC)

Blank (P0C2602-BLK1)

Prepared & Analyzed: 03/26/20

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	0.118		"	0.120		98.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	75-125			

LCS (P0C2602-BS1)

Prepared & Analyzed: 03/26/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.104	0.00100	"	0.100		104	70-130			
Ethylbenzene	0.106	0.00100	"	0.100		106	70-130			
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130			
Xylene (o)	0.108	0.00100	"	0.100		108	70-130			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			

LCS Dup (P0C2602-BSD1)

Prepared & Analyzed: 03/26/20

Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130	11.0	20	
Toluene	0.114	0.00100	"	0.100		114	70-130	8.75	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	1.59	20	
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130	7.06	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	3.58	20	
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.5	75-125			

Calibration Blank (P0C2602-CCB1)

Prepared & Analyzed: 03/26/20

Benzene	0.390		mg/kg wet							
Toluene	0.970		"							
Ethylbenzene	0.750		"							
Xylene (p/m)	1.47		"							
Xylene (o)	0.300		"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.3	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0C2602 - General Preparation (GC)

Calibration Check (P0C2602-CCV1)			Prepared & Analyzed: 03/26/20							
Benzene	0.105	0.00100	mg/kg wet	0.100		105	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	75-125			

Matrix Spike (P0C2602-MS1)			Source: 0C23004-01	Prepared & Analyzed: 03/26/20						
Benzene	0.0957	0.00115	mg/kg dry	0.115	ND	83.3	80-120			
Toluene	0.0922	0.00115	"	0.115	ND	80.2	80-120			
Ethylbenzene	0.110	0.00115	"	0.115	ND	95.4	80-120			
Xylene (p/m)	0.186	0.00230	"	0.230	ND	80.9	80-120			
Xylene (o)	0.0928	0.00115	"	0.115	ND	80.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.154		"	0.138		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.138		93.9	75-125			

Matrix Spike Dup (P0C2602-MSD1)			Source: 0C23004-01	Prepared & Analyzed: 03/26/20						
Benzene	0.0976	0.00115	mg/kg dry	0.115	ND	84.9	80-120	1.99	20	
Toluene	0.0944	0.00115	"	0.115	ND	82.1	80-120	2.30	20	
Ethylbenzene	0.110	0.00115	"	0.115	ND	95.7	80-120	0.283	20	
Xylene (p/m)	0.185	0.00230	"	0.230	ND	80.3	80-120	0.701	20	
Xylene (o)	0.0900	0.00115	"	0.115	ND	78.3	80-120	3.05	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.150		"	0.138		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.138		93.4	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 551H
Project Number: 19-0179-07
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 P0C2502 - * DEFAULT PREP *****

Blank (P0C2502-BLK1) Prepared & Analyzed: 03/25/20

Chloride	ND	1.00	mg/kg wet							
----------	----	------	-----------	--	--	--	--	--	--	--

LCS (P0C2502-BS1) Prepared & Analyzed: 03/25/20

Chloride	406	1.00	mg/kg wet	400		101	80-120			
----------	-----	------	-----------	-----	--	-----	--------	--	--	--

LCS Dup (P0C2502-BSD1) Prepared & Analyzed: 03/25/20

Chloride	406	1.00	mg/kg wet	400		101	80-120	0.0789	20	
----------	-----	------	-----------	-----	--	-----	--------	--------	----	--

Matrix Spike (P0C2502-MS1) Source: 0C24007-21 Prepared & Analyzed: 03/25/20

Chloride	11700	11.4	mg/kg dry	9090	3620	89.0	80-120			
----------	-------	------	-----------	------	------	------	--------	--	--	--

Matrix Spike (P0C2502-MS2) Source: 0C24007-31 Prepared: 03/25/20 Analyzed: 03/26/20

Chloride	11500	11.0	mg/kg dry	8790	2530	102	80-120			
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Matrix Spike Dup (P0C2502-MSD1) Source: 0C24007-21 Prepared & Analyzed: 03/25/20

Chloride	11800	11.4	mg/kg dry	9090	3620	90.3	80-120	0.944	20	
----------	-------	------	-----------	------	------	------	--------	-------	----	--

Matrix Spike Dup (P0C2502-MSD2) Source: 0C24007-31 Prepared: 03/25/20 Analyzed: 03/26/20

Chloride	11200	11.0	mg/kg dry	8790	2530	98.7	80-120	2.43	20	
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Batch P0C2601 - * DEFAULT PREP *****

Blank (P0C2601-BLK1) Prepared & Analyzed: 03/26/20

% Moisture	ND	0.1	%							
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Duplicate (P0C2601-DUP1) Source: 0C25005-03 Prepared & Analyzed: 03/26/20

% Moisture	3.0	0.1	%		2.0			40.0	20	
------------	-----	-----	---	--	-----	--	--	------	----	--

Larson & Associates, Inc.	Project: Dagger Lake 551H	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0179-07	
Midland TX, 79710	Project Manager: Mark Larson	

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 P0C2601 - *** DEFAULT PREP ***

Duplicate (P0C2601-DUP2)	Source: 0C25008-12			Prepared & Analyzed: 03/26/20						
% Moisture	9.0	0.1	%		9.0			0.00	20	

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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 P0C2504 - TX 1005

Blank (P0C2504-BLK1)

Prepared & Analyzed: 03/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	51.7		"	50.0		103	70-130			

LCS (P0C2504-BS1)

Prepared & Analyzed: 03/25/20

C6-C12	962	25.0	mg/kg wet	1000		96.2	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.3	70-130			

LCS Dup (P0C2504-BSD1)

Prepared & Analyzed: 03/25/20

C6-C12	976	25.0	mg/kg wet	1000		97.6	75-125	1.42	20	
>C12-C28	1170	25.0	"	1000		117	75-125	2.21	20	
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	50.3		"	50.0		101	70-130			

Calibration Blank (P0C2504-CCB1)

Prepared & Analyzed: 03/25/20

C6-C12	20.6		mg/kg wet							
>C12-C28	16.2		"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	56.1		"	50.0		112	70-130			

Calibration Blank (P0C2504-CCB2)

Prepared & Analyzed: 03/25/20

C6-C12	21.5		mg/kg wet							
>C12-C28	12.7		"							
Surrogate: 1-Chlorooctane	92.5		"	100		92.5	70-130			
Surrogate: o-Terphenyl	50.8		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
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 P0C2504 - TX 1005

Calibration Check (P0C2504-CCV1)

Prepared & Analyzed: 03/25/20

C6-C12	500	25.0	mg/kg wet	500		100	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			

Calibration Check (P0C2504-CCV2)

Prepared & Analyzed: 03/25/20

C6-C12	449	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	514	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.7	70-130			

Matrix Spike (P0C2504-MS1)

Source: 0C25003-07

Prepared & Analyzed: 03/25/20

C6-C12	874	26.6	mg/kg dry	1060	18.4	80.4	75-125			
>C12-C28	1030	26.6	"	1060	18.7	95.3	75-125			
Surrogate: 1-Chlorooctane	107		"	106		101	70-130			
Surrogate: o-Terphenyl	45.8		"	53.2		86.2	70-130			

Matrix Spike Dup (P0C2504-MSD1)

Source: 0C25003-07

Prepared & Analyzed: 03/25/20

C6-C12	860	26.6	mg/kg dry	1060	18.4	79.1	75-125	1.61	20	
>C12-C28	1040	26.6	"	1060	18.7	95.9	75-125	0.582	20	
Surrogate: 1-Chlorooctane	106		"	106		99.5	70-130			
Surrogate: o-Terphenyl	45.2		"	53.2		84.9	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Dagger Lake 551H
Project Number: 19-0179-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

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:

3/27/2020

Brent Barron, Laboratory Director/Technical Director

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.

No 1128

Carson & Associates, Inc.
Environmental Consultants

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

Data Reported to:

DATE: 3/25/2020 PAGE 1 OF 1
PO#: 0625001 LAB WORK ORDER#: 0625001
PROJECT LOCATION OR NAME: Dagger Lake 651H
LAI PROJECT #: 19-0179-07 COLLECTOR: RN/DS

CHAIN-OF-CUSTODY

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:
MST

0625001

Field Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃

H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8280 ☐

SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐

8081 PESTICIDES ☐ 8151 HERBICIDES ☐

TBLP PCBs ☐

TCLP METALS (RCRA) ☐ TCLP VOC ☐

TOTAL METALS (RCRA) ☐ Semi-VOC ☐

LEAD - TOTAL ☐ FLASHPOINT ☐ TCLP ☐

RCl ☐ TOX ☐ % MOISTURE ☐ CYANIDE ☐

TDS ☐ TSS ☐ HEXAVALENT CHROMIUM ☐

BH ☐ EXPLOSIVES ☐ PECTHLOATE ☐

CHLORIDE ANIONS ☐ ALKALINITY ☐

FIELD NOTES

7.4

-01

3/24/20

13:00

S

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TOTAL

1

RELINQUISHED BY: (Signature)
Robert J. Owen

DATE/TIME
3-25-20/8:43

RECEIVED BY: (Signature)

DATE/TIME
3-25-20/8:43

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DATE/TIME
3-25-20/8:43

LABORATORY:

PBEL

DATE/TIME
3-25-20/8:43

RECEIVED BY: (Signature)

DATE/TIME
3-25-20/8:43

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DATE/TIME
3-25-20/8:43

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DATE/TIME
3-25-20/8:43

RECEIVED BY: (Signature)

DATE/TIME
3-25-20/8:43

RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL **20 BTEX**

1 DAY **Rush Cr**

2 DAY **TPH**

OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: **2.0/3.0** THERM#:

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

HAND DELIVERED

Appendix B
Waste Manifests

STATEMENT						
DATE	MANIFEST #	LEASE NAME	WEIGHT LBS	YDS		
01.10.2020	134081		70360	35.18		
01.10.2020	134082		73740	36.87		
01.10.2020	134083		73560	36.78		
01.10.2020	134084		78300	39.15		
01.10.2020	134085		76360	38.18		
01.13.2020	134104		128700	64.35		
01.13.2020	134105		134840	67.42		
01.13.2020	134106		118700	59.35		
01.13.2020	134107		111280	55.64		
01.13.2020	134108		128060	64.03		
01.13.2020	134109		82360	41.18		
01.13.2020	134110		127480	63.74		
01.13.2020	134111		128220	64.11		
01.14.2020	134139		115680	57.84		
01.14.2020	134140		114920	57.46		
01.14.2020	134141		111360	55.68		
01.14.2020	134142		115240	57.62		
01.14.2020	134143		113740	56.87		
01.14.2020	134144		109120	54.56		
01.14.2020	134145		130300	65.15		
01.14.2020	134146		124720	62.36		
01.14.2020	134147		114900	57.45		
01.14.2020	134148		113240	56.62		
01.14.2020	134153		105780	52.89		
01.16.2020	134211		109900	54.95		
01.16.2020	134212		119420	59.71		
03.25.2020	135956		128240	64.12		
				1479.26		

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Muriillo

NON-HAZARDOUS WASTE MANIFESTNO **134081**

1. PAGE ___ OF ___

2. TRAILER NO. **3**

G

3. COMPANY NAME
Select Energy Services4. ADDRESS
5721 NW 132nd St.5. PICK-UP DATE
1/10/2020

E

PHONE NO.

CITY

STATE

ZIP

Oklahoma**OK****73142**

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. **Non-Regulated, Non Hazardous Waste**8. CONTAINERS
No. Type**1****CM**9. TOTAL
QUANTITY10. UNIT
Wt. Vol.11. TEXAS
WASTE ID #

E

b.

c.

R

dVVT:

30820 39540

A

12. COMMENTS OR SPECIAL INSTRUCTIONS.
DAGGER LAKE #2

13. WASTE PROFILE NO.

TC 70340

T

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**NAME
JOE ONTIVEROSPHONE NO.
575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME:

SIGNATURE

DATE

T

16. **TRANSPORTER (1)**
P2 CONSTRUCTION

NAME:

TEXAS I.D. NO.

SERGIO

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

R

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18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED TYPED NAME

SIGNATURE

DATE

1/10/202019. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE:

CELL NO.

DATE

1/10/2020

TIME

9:35

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Dog

NON-HAZARDOUS WASTE MANIFESTNO **134082**

1. PAGE ___ OF ___

2. TRAILER NO. **07**

G

3. COMPANY NAME
Select Energy Services4. ADDRESS
5721 NW 132nd St5. PICK-UP DATE
1/10/2020

PHONE NO.

CITY

STATE

ZIP

E

Oklahoma**OK****73142**

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type9. TOTAL
QUANTITY10. UNIT
Wt-Vol.11. TEXAS
WASTE ID #a. **Non-Regulated, Non Hazardous Waste****1****CM**

E

b.

c.

R

12. COMMENTS OR SPECIAL INSTRUCTIONS:
DAGGER LAKE #2

13. WASTE PROFILE NO.

A

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

T

NAME
JOE ONTIVEROSPHONE NO.
575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16. **TRANSPORTER (1)**

NAME:

P2 CONSTRUCTION

TEXAS I.D. NO.

SERGIO

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

S

18. **TRANSPORTER (1):** Acknowledgment of receipt of material19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED TYPED NAME

PRINTED TYPED NAME

SIGNATURE

SIGNATURE

DATE

DATE

1/10/2020

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L

Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

1/10/2020**9:40**

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Grandos***NON-HAZARDOUS WASTE MANIFEST**NO **134083**

1. PAGE ____ OF ____

2. TRAILER NO. *6*

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/10/2020	
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated Non Hazardous Waste				1 CM	
T R A N S P O R T E R S	b.					
	c.					
	d. VLT: 35,420 38,140					
	12. COMMENTS OR SPECIAL INSTRUCTIONS. DAGGER LAKE #2				13. WASTE PROFILE NO.	
D I S P O S I T Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
D I S P O S I T Y	16. TRANSPORTER (1) P2 CONSTRUCTION			17. TRANSPORTER (2)		
	NAME:			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T Y	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME LRAM			PRINTED/TYPED NAME		
	SIGNATURE Robertto Amador 1/10/2020			SIGNATURE DATE		
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE Santa Montalvo		CELL NO.		DATE 1/10/2020	TIME 9:45

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Juan Granada

NON-HAZARDOUS WASTE MANIFEST

NO **134084**

1. PAGE ____ OF ____

2. TRAILER NO. **Red**

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/10/2020	
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1 CM	
T R A N S P O R T E R S	b.					
	c.					
	d. WT. 39,280 39,020					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
D I S P O S I T A R Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED TYPED NAME			SIGNATURE		
T R A N S P O R T E R S	16. TRANSPORTER (1) P2 CONSTRUCTION			17. TRANSPORTER (2)		
	NAME:			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T A R Y	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME Alfredo Enriquez			PRINTED TYPED NAME _____		
	SIGNATURE Alfredo Enriquez DATE 1/10/2020			SIGNATURE _____ DATE _____		
D I S P O S I T A R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE Santos Monzalez		CELL NO.		DATE 1/10/2020	TIME 9:45

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3
COPY 1

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Granados***NON-HAZARDOUS WASTE MANIFEST**

NO

134085

1. PAGE ___ OF ___

2. TRAILER NO.

5

G

3. COMPANY NAME
Select Energy Services4. ADDRESS
5721 NW 132nd St.5. PICK-UP DATE
1/10/2020

PHONE NO.

CITY

STATE

ZIP

6. TNRCC I.D. NO.

Oklahoma**OK****73142**

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS

9. TOTAL

10. UNIT

11. TEXAS

N

a. **Non-Regulated, Non Hazardous Waste**

No.

Type

QUANTITY

Wt/Vol.

WASTE ID #

E

b.

c.

R

36,980 39,38012. COMMENTS OR SPECIAL INSTRUCTIONS:
DAGGER LAKE #2

13. WASTE PROFILE NO.

A

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

T

NAME
JOE ONTIVEROSPHONE NO.
575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16. **TRANSPORTER (1)**

NAME:

P2 CONSTRUCTION

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED TYPED NAME

SIGNATURE

Juan Pio Granados**1/10/2020**17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED TYPED NAME

SIGNATURE

DATE

D

F

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C

P

I

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L

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A

T

PERMIT NO.

WM-01-035 - New Mexico

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-404821. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

1/10/2020

TIME

9:50

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

muri 110
3**NON-HAZARDOUS WASTE MANIFEST**

NO 134104

1. PAGE ____ OF ____

2. TRAILER NO.

3

G E N E R A T O R	3. COMPANY NAME Select Energy Services PHONE NO.	4. ADDRESS 5721 NW 132nd St. CITY STATE ZIP Oklahoma OK 73142	5. PICK-UP DATE 1/18/2020		
			6. TNRCC I.D. NO.		
R A T E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	a. Non-Regulated, Non Hazardous Waste		1 CM		
	b.				
	c.				
A T T R I B U T E S	d. WT: 42,280 44,040 42,380				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2 TC 128,700		13. WASTE PROFILE NO.		
O F F I C E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT				
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED TYPED NAME		SIGNATURE		DATE
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME: [Signature]		PRINTED TYPED NAME: _____		
	SIGNATURE: [Signature] DATE: 1/18/2020		SIGNATURE: _____ DATE: _____		
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
A U T H O R I Z E D S I G N A T U R E	AUTHORIZED SIGNATURE: [Signature]		CELL NO.	DATE	TIME 8:20
	1/18/2020				

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3
COPY 1

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NO NAME

NON-HAZARDOUS WASTE MANIFEST

NO

134105

1. PAGE ____ OF ____

2. TRAILER NO.

G E N E R A T O R	3. COMPANY NAME Select Energy Services PHONE NO.	4. ADDRESS 5721 NW 132nd St. CITY STATE ZIP Oklahoma OK 73142	5. PICK-UP DATE 1/18/2020			
			6. TNRCC I.D. NO.			
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. Non-Regulated, Non Hazardous Waste		1	CM		
T R A N S P O R T E R S	b.					
	c.					
	dWT: 42,020 46,860 45960					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.			
D I S P O S I T Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME		SIGNATURE		DATE	
D I S P O S I T Y	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: Esker Gordon SIGNATURE: [Signature] DATE: 1/18/2020		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: _____ SIGNATURE: _____ DATE: _____			
	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
D I S P O S I T Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE [Signature]		CELL NO. [Signature]	DATE 1/18/2020	TIME 8:35	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Granada***NON-HAZARDOUS WASTE MANIFEST**

NO

134106

1. PAGE ____ OF ____

2. TRAILER NO.

5

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/18/2020	
	PHONE NO.		CITY STATE ZIP Oklahoma OK 73142		6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1 CM	
R E C E I V E R	b.					
	c.					
	d. WT: 39,620 38,220 40860					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.					
	PRINTED/TYPED NAME		SIGNATURE		DATE	
D I S P O S I T A L Y	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
	NAME: F2 CONSTRUCTION		NAME:			
	TEXAS I.D. NO.		TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: SERGIO		IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T A L Y	EMERGENCY PHONE:		EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED TYPED NAME: Juan Francisco Granada		PRINTED TYPED NAME: _____			
	SIGNATURE: <i>Juan Francisco Granada</i> DATE: 1/18/2020		SIGNATURE: _____ DATE: _____			
D I S P O S I T A L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE: <i>Santos Gonzalez</i>		CELL NO. _____		DATE: 1/18/2020	TIME: 8:40

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3
COPY 1

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Grand***NON-HAZARDOUS WASTE MANIFEST**NO **134107**

1. PAGE ___ OF ___

2. TRAILER NO. **Le**

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/13/2020	
	PHONE NO.		CITY STATE ZIP Oklahoma OK 73142		6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1 CM	
R E C E I V E R	b.					
	c.					
	d. WT: 34,880 34,220 39,180					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
A T T E S T E D	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
T R A N S P O R T E R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: P2 CONSTRUCTION			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SERGIO			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T I O N	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME RAM			PRINTED/TYPED NAME		
	SIGNATURE Robert A. Lopez DATE 1/13/2020			SIGNATURE DATE		
F A C I L I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO.		DATE 1/13/2020	TIME 8:45

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **134108**

1. PAGE OF

2. TRAILER NO. **07**

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/18/2020		
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:					8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste					1	CM
T R A N S P O R T E R S	b.						
	c.						
	d. WT: 42,440 43,740 41,880						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2					13. WASTE PROFILE NO.	
D I S P O S I T A L Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT						
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.		
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC						
	PRINTED TYPED NAME			SIGNATURE			DATE
D I S P O S I T A L Y	16. TRANSPORTER (1)			17. TRANSPORTER (2)			
	NAME: P2 CONSTRUCTION			NAME:			
	TEXAS I.D. NO.			TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: SERGIO			IN CASE OF EMERGENCY CONTACT:			
D I S P O S I T A L Y	EMERGENCY PHONE:			EMERGENCY PHONE:			
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
	PRINTED TYPED NAME X Cesar Sosa			PRINTED TYPED NAME			
	SIGNATURE X Cesar Sosa DATE 1/18/2020			SIGNATURE DATE			
D I S P O S I T A L Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048		
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS				
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.						
	AUTHORIZED SIGNATURE Santa Monzalez			CELL NO.	DATE 1/18/2020	TIME 8:45	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

ATT

NON-HAZARDOUS WASTE MANIFEST

NO 134109

1. PAGE ____ OF ____

2. TRAILER NO. 03

G

3. COMPANY NAME

Select Energy Services

PHONE NO.

4. ADDRESS

5721 NW 132nd St.

CITY

STATE

ZIP

Oklahoma

OK

73142

5. PICK-UP DATE

1/18/2020

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

N

a. Non-Regulated, Non Hazardous Waste

1

CM

E

b.

c.

R

d WT: 38,740 43,620

12. COMMENTS OR SPECIAL INSTRUCTIONS:

DAGGER LAKE #2

13. WASTE PROFILE NO.

TC 82340

A

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

T

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

O

PRINTED-TYPED NAME

SIGNATURE

DATE

R

16. TRANSPORTER (1)

NAME:

P2 CONSTRUCTION

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SERGIO

EMERGENCY PHONE:

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

Sergio Fierro

SIGNATURE

Sergio Fierro

DATE

1/18/2020

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

D

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

F

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

I

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

S

AUTHORIZED SIGNATURE

Santos Gonzalez

CELL NO.

DATE

1/18/2020

TIME

8:50

A

T

I

O

N

E

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Rem

NON-HAZARDOUS WASTE MANIFESTNO **134110**

1. PAGE ___ OF ___

2. TRAILER NO.

141

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/13/2020	
	PHONE NO.	CITY Oklahoma	STATE OK	ZIP 73142
N E E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
	b.			
	c.			
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME JOE ONTIVEROS PHONE NO. 575-887-4048 24-HOUR EMERGENCY NO.			
T R A N S P O R T E R S	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
	PRINTED/TYPED NAME		SIGNATURE	
D I S P O S I T I O N A L F A C I L I T Y	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Rick Jones SIGNATURE [Signature] DATE 1/13/2020		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____	
	20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
D I S P O S I T I O N A L F A C I L I T Y	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 1/13/2020
	TIME 9:10			

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3
COPY 1

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Grand***NON-HAZARDOUS WASTE MANIFEST**NO **134111**

1. PAGE ___ OF ___

2. TRAILER NO. **1 (Red)**

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/13/2020	
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1 CM	
T R A N S P O R T E R S	b.					
	c.					
	dWT: 41320 45080 41820					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
D I S P O S I T Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED TYPED NAME			SIGNATURE		
D I S P O S I T Y	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: P2 CONSTRUCTION			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SERGIO			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T Y	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME Alfredo Enriquez			PRINTED/TYPED NAME _____		
	SIGNATURE Alfredo Enriquez DATE 1/13/2020			SIGNATURE _____ DATE _____		
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE Sanos Monzalez			CELL NO.	DATE 1/13/2020	TIME 9:00

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Cig

NON-HAZARDOUS WASTE MANIFESTNO **134139**1. PAGE OF 2. TRAILER NO. **C-3**

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020	
	PHONE NO.	CITY Oklahoma	STATE OK	ZIP 73142
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
T R A N S P O R T E R S	b.			
	c.			
	dWT: 39,220 40,720 35,740			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
D I S P O S I T Y	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
	NAME JOE ONTIVEROS		24-HOUR EMERGENCY NO.	
	PHONE NO. 575-887-4048			
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
D I S P O S I T Y	PRINTED/TYPED NAME		SIGNATURE	
	DATE			
	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION		17. TRANSPORTER (2)	
	TEXAS I.D. NO.		NAME:	
D I S P O S I T Y	IN CASE OF EMERGENCY CONTACT: SERGIO		TEXAS I.D. NO.	
	EMERGENCY PHONE:		IN CASE OF EMERGENCY CONTACT:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
	PRINTED/TYPED NAME Carlos Cerecerez		PRINTED/TYPED NAME	
D I S P O S I T Y	SIGNATURE Carlos Cerecerez DATE 1/14/2020		SIGNATURE DATE	
	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	
	PHONE: 575-887-4048			
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS	
D I S P O S I T Y	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO.	
	DATE 1/14/2020		TIME 9:10	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

DOG

NON-HAZARDOUS WASTE MANIFESTNO **134140**

1. PAGE ___ OF ___

2. TRAILER NO.

07

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020	
	PHONE NO.	CITY Oklahoma	STATE OK	ZIP 73142
T R A N S P O R T E R S	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
	b.			
	c.			
D I S P O S I T Y	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
D I S P O S I T Y	NAME JOE ONTIVEROS		24-HOUR EMERGENCY NO.	
	PHONE NO. 575-887-4048			
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
	PRINTED/TYPED NAME		SIGNATURE	
D I S P O S I T Y	16. TRANSPORTER (1)		17. TRANSPORTER (2)	
	NAME: P2 CONSTRUCTION		NAME:	
D I S P O S I T Y	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SERGIO		IN CASE OF EMERGENCY CONTACT:	
D I S P O S I T Y	EMERGENCY PHONE:		EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
D I S P O S I T Y	PRINTED/TYPED NAME Alonso Sora		PRINTED/TYPED NAME	
	SIGNATURE Alonso Sora DATE 1/14/2020		SIGNATURE DATE	
D I S P O S I T Y	Lea Land, LLC		PHONE: 575-887-4048	
	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			
D I S P O S I T Y	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
D I S P O S I T Y	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO.	DATE 1/14/2020
				TIME 9:10

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

ATT

NON-HAZARDOUS WASTE MANIFESTNO **134141**1. PAGE OF 2. TRAILER NO. **03**

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020		
	PHONE NO.	CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	a. Non-Regulated, Non Hazardous Waste		1 CM		
	b.				
	c.				
	WT: 35040 40940 35380				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2			13. WASTE PROFILE NO.	
	TC 111,340				

14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
--------------------	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)	
	NAME: P2 CONSTRUCTION		NAME:	
	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SERGIO		IN CASE OF EMERGENCY CONTACT:	
	EMERGENCY PHONE:		EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
	PRINTED/TYPED NAME Alexandro Mendez		PRINTED/TYPED NAME	
	SIGNATURE Alexandro Mendez DATE 1/14/2020		SIGNATURE DATE	

D I S C I P L I N A R Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE [Signature]	CELL NO.	DATE 1/14/2020	TIME 9:15
--	----------	--------------------------	---------------------

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Farrell Knocks

NON-HAZARDOUS WASTE MANIFESTNO **134143**

1. PAGE ___ OF ___

2. TRAILER NO. **129**

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020	
	PHONE NO.	CITY Oklahoma STATE OK ZIP 73142	6. TNRCC I.D. NO.	
N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
	b.			
	c.			
A T T R I B U T E R	dWT: 42860 33460 37420			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048	
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC		24-HOUR EMERGENCY NO.	
	PRINTED/TYPED NAME		SIGNATURE	
D I S P O S I T Y	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Esker Gordon SIGNATURE [Signature] DATE 1/14/2020		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____	
D I S P O S I T Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	
	PERMIT NO. WM-01-035 - New Mexico		PHONE: 575-887-4048	
D I S P O S I T Y	20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
D I S P O S I T Y	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 1/14/2020
				TIME 9:25

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Rem

NON-HAZARDOUS WASTE MANIFEST

NO

134144

1. PAGE ___ OF ___

2. TRAILER NO.

141

G

3. COMPANY NAME

Select Energy Services

4. ADDRESS

5721 NW 132nd St.

5. PICK-UP DATE

1/14/2020

PHONE NO.

CITY

STATE

ZIP

6. TNRCC I.D. NO.

Oklahoma

OK

73142

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID #

N

a. Non-Regulated, Non Hazardous Waste

1

CM

E

b.

c.

R

dwt:

39,080

34,020

34,020

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

DAGGER LAKE #2

13. WASTE PROFILE NO.

TC 109,120

T

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO.

575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

TRANSPORTER (1)

NAME:

P2 CONSTRUCTION

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SERGIO

EMERGENCY PHONE:

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

S

18. **TRANSPORTER (1):** Acknowledgment of receipt of material19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED TYPED NAME

Rick Perez

PRINTED TYPED NAME

SIGNATURE

[Signature]

DATE

1/14/2020

SIGNATURE

DATE

D

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

F

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

I

S

C

P

I

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L

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

[Signature]

CELL NO

DATE

1/14/2020

TIME

9:30

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62 180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Familys

NON-HAZARDOUS WASTE MANIFESTNO **134145**

1. PAGE ___ OF ___

2. TRAILER NO. **F-1**

G	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020	
	PHONE NO.	CITY STATE ZIP Oklahoma OK 73142	6. TNRCC I.D. NO.	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
N	b.			
	c.			
E	dWT: 43540 44720 42040			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.
A	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
	PRINTED/TYPED NAME		SIGNATURE DATE	
T	16. TRANSPORTER (1)		17. TRANSPORTER (2)	
	NAME: P2 CONSTRUCTION		NAME:	
R	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SERGIO		IN CASE OF EMERGENCY CONTACT:	
A	EMERGENCY PHONE:		EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
S	PRINTED/TYPED NAME Sole Nunc SW		PRINTED/TYPED NAME	
	SIGNATURE Sole Nunc DATE 1/14/2020		SIGNATURE DATE	
D	Lea Land, LLC		ADDRESS:	
	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
I	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
S	AUTHORIZED SIGNATURE Dante		CELL NO.	DATE 1/14/2020
	TIME 9:35			

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

24-7

NON-HAZARDOUS WASTE MANIFESTNO **134146**

1. PAGE ____ OF ____

2. TRAILER NO. **T-D35**

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/14/2020	
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1 CM	
R E C E I V E R	b.					
	c.					
	dWT: 44,820 42,420 37,480					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		DATE
D I S P O S I T O R	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: P2 CONSTRUCTION			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SERGIO			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T O R	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED TYPED NAME Osceola Soto			PRINTED/TYPED NAME		
	SIGNATURE Osceola Soto DATE 1/14/2020			SIGNATURE DATE		
D I S P O S I T O R	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE Santos Gonzalez		CELL NO.		DATE 1/14/2020	TIME 9:45

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Granado***NON-HAZARDOUS WASTE MANIFEST**NO **134147**1. PAGE OF 2. TRAILER NO. **05**

G E N E R A T O R	3. COMPANY NAME Select Energy Services	4. ADDRESS 5721 NW 132nd St.	5. PICK-UP DATE 1/14/2020	
	PHONE NO.	CITY Oklahoma	STATE OK	ZIP 73142
	6. TNRCC I.D. NO.			
E N V I R O N M E N T	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste		1 CM	
	b.			
	c.			
R E C E I V E R	dWT: 38,060 37,860 38,980			
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.	
	TC 114,900			
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT			
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048	
	24-HOUR EMERGENCY NO.			
O F F I C I A L	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC			
	PRINTED/TYPED NAME		SIGNATURE	
	DATE			
T R A N S P O R T E R S	16. TRANSPORTER (1)		17. TRANSPORTER (2)	
	NAME: P2 CONSTRUCTION		NAME:	
	TEXAS I.D. NO.		TEXAS I.D. NO.	
	IN CASE OF EMERGENCY CONTACT: SERGIO		IN CASE OF EMERGENCY CONTACT:	
D I S P O S I T Y	EMERGENCY PHONE:		EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material	
	PRINTED/TYPED NAME Juan P2 Construction		PRINTED/TYPED NAME	
	SIGNATURE X Juan P2 Construction		SIGNATURE	
D I S P O S I T Y	1/14/2020		DATE	
	DATE			
D I S P O S I T Y	Lea Land, LLC		ADDRESS:	
			Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	
	PHONE:		575-887-4048	
D I S P O S I T Y	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			
	AUTHORIZED SIGNATURE Santos Manzanarez		CELL NO.	DATE 1/14/2020
TIME 9:50				

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Juan Granado***NON-HAZARDOUS WASTE MANIFEST**

NO

134153

1. PAGE ____ OF ____

2. TRAILER NO. *1*

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/14/2020	
	PHONE NO.		CITY Oklahoma	STATE OK	ZIP 73142	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1	CM
R E C E I V E R	b.					
	c.					
	WT: 35060 34680 34040					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO. TC 105780	
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME			SIGNATURE		
D I S P O S I T O R S	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME: P2 CONSTRUCTION			NAME:		
	TEXAS I.D. NO.			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: SERGIO			IN CASE OF EMERGENCY CONTACT:		
D I S P O S I T O R S	EMERGENCY PHONE:			EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material		
	PRINTED/TYPED NAME J R A M			PRINTED/TYPED NAME		
	SIGNATURE <i>[Signature]</i> DATE 1/14/2020			SIGNATURE DATE		
D I S P O S I T O R S	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE <i>[Signature]</i>		CELL NO.		DATE 1/14/2020	TIME 10:00

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Murillo

NO 134211

1. PAGE OF

2. TRAILER NO.

3

G E N E R A T O R	3. COMPANY NAME Select Energy Services		4. ADDRESS 5721 NW 132nd St.		5. PICK-UP DATE 1/18/2020	
	PHONE NO.		CITY STATE ZIP Oklahoma OK 73142		6. TNRCC I.D. NO.	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	
T R A N S P O R T E R	a. Non-Regulated, Non Hazardous Waste				1	
	b.					
	c.					
D I S P O S I T A R Y	d. WT: 34,320 33,620 39,960					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME: JOE ONTIVEROS PHONE NO: 575-887-4048 24-HOUR EMERGENCY NO.					
T R A N S P O R T E R	15. GENERATOR'S CERTIFICATION: I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME				SIGNATURE DATE	
	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:				17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
D I S P O S I T A R Y	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: [Signature] SIGNATURE: [Signature] DATE: 1/18/2020				19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: _____ SIGNATURE: _____ DATE: _____	
	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
D I S P O S I T A R Y	21. DISPOSAL FACILITY'S CERTIFICATION: I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE: [Signature]		CELL NO.		DATE 1/18/2020	
					TIME 8:45	

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

C26
C3

NON-HAZARDOUS WASTE MANIFEST

NO

134212

1. PAGE ____ OF ____

2. TRAILER NO.

C3

G E N E R A T O R	3. COMPANY NAME Select Energy Services PHONE NO.	4. ADDRESS 5721 NW 132nd St. CITY STATE ZIP Oklahoma OK 73142	5. PICK-UP DATE 1/18/2020		
			6. TNRCC I.D. NO.		
N E W M E X I C O	7. NAME OR DESCRIPTION OF WASTE SHIPPED: a. Non-Regulated, Non Hazardous Waste b. c.		8. CONTAINERS No. Type 1 CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.
	dwt: 36,520 42,440 40,460				
A U T H O R I Z E D	12. COMMENTS OR SPECIAL INSTRUCTIONS: DAGGER LAKE #2		13. WASTE PROFILE NO.		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME: JOE ONTIVEROS PHONE NO: 575-887-4048		24-HOUR EMERGENCY NO.		
T R A N S P O R T E R S	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC				
	PRINTED/TYPED NAME		SIGNATURE		DATE
D I S P O S I T O R Y	16. TRANSPORTER (1) NAME: P2 CONSTRUCTION TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: SERGIO EMERGENCY PHONE:		17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:		
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME: Carlos Cereceres SIGNATURE: [Signature] DATE: 1/18/2020		19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME: SIGNATURE: DATE:		
D I S P O S I T O R Y	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS		
D I S P O S I T O R Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				
	AUTHORIZED SIGNATURE [Signature]		CELL NO.	DATE 1/18/2020	TIME 8:50

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3
COPY 1

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

135956

1. PAGE ____ OF ____

2. TRAILER NO.

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3. COMPANY NAME

PHONE NO.

4. ADDRESS

CITY

STATE

ZIP

5. PICK-UP DATE

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. *100% Degradable, non-hazardous waste*

b.

c.

d.

42,340 43,270 42,680

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO. **4048**

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. **TRANSPORTER (1)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

(575) 263-785717. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

Enrique Rodriguez

SIGNATURE

DATE

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM**

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

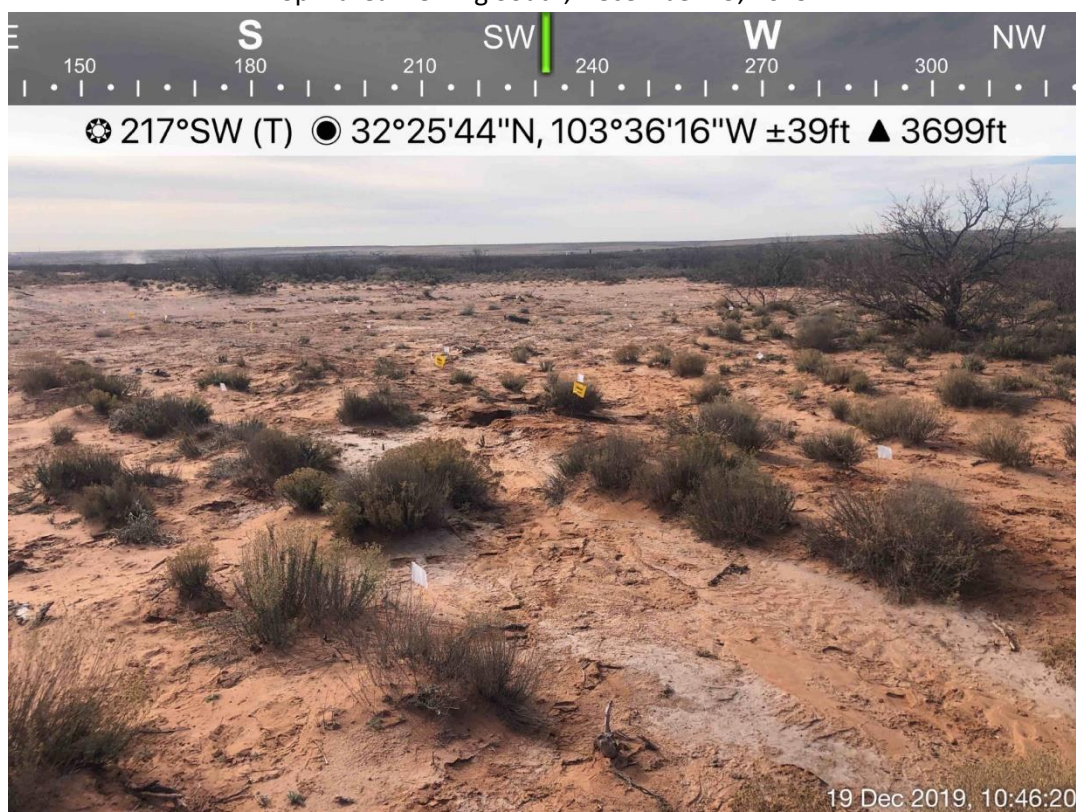
Appendix C
Photographs

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Spill area viewing South, December 19, 2019



Spill Area Viewing Southwest, December 19, 2019

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



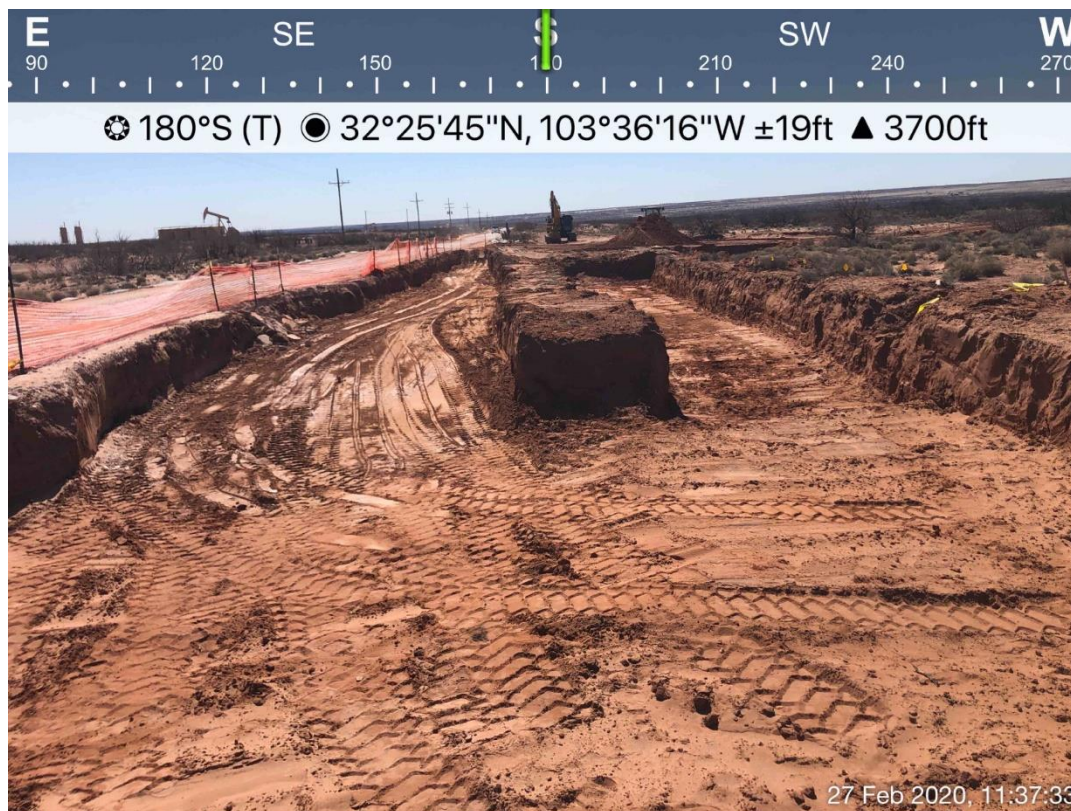
Spill Area Viewing West, December 19, 2019



Spill Area Viewing East, December 19, 2019

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Excavation Area Viewing South, February 27, 2020



Excavation Area Viewing Southwest, February 27, 2020

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Excavation Area Viewing East, February 27, 2020



Excavation Area Viewing Southwest, February 27, 2020

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Excavation Area Viewing Northwest, February 27, 2020



Backfilled and Seeded Area Viewing South, April 16, 2020

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Backfilled and Seeded Area Viewing South, April 16, 2020



Backfilled and Seeded Area Viewing Southeast, April 16, 2020

Tracking Number: nRM2002758392

Dagger Lake 5 State Com #551H



Backfilled and Seeded Area Viewing East, April 16, 2020