

August 10, 2023

Mike Bratcher New Mexico Oil Conservation Division (NMOCD) 506 W. Texas Ave. Artesia, NM 88210

Shelly Tucker Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

RE: Site Investigation Summary and Proposed Activities

West B4 Release (nAPP2221061094)
Plains All American Pipeline, LP
U/L "F", Sec. 10, T17S, R31E
Eddy County, New Mexico

Mr. Bratcher and Ms. Tucker:

INTRODUCTION

This *Site Investigation Summary and Proposed Activities* has been prepared on behalf of Plains All American Pipeline, LP (Plains) for their West B4 Reportable release site (nAPP2221061094). On July 27, 2022, Plains discovered a crude oil release from a 4-Inch pipeline located downstream of the associated LACT unit at the West B4 Tank Battery. The initial Release Notification (NMOCD Form C-141) indicated that a pipeline failure due to internal corrosion resulted in the release of approximately 7.6 barrels (bbls) of crude oil. A copy of the NMOCD Form C-141 and volume calculation sheet is provided as Attachment #1. A "Site Location Map" is provided as Attachment #2.

BACKGROUND

Upon discovering the release, heavily impacted material was excavated by hand and stockpiled on-site atop an impermeable plastic liner by an alternative environmental contractor. During the removal of impacted material, historical soil impacts not related to the subject pipeline were encountered across the site. The floor and sidewalls of the excavated area were advanced beyond the margins of the subject release until it became evident that historical soil impacts were widespread across a majority of the tank battery location. During initial remediation activities approximately 40 cubic yards (cy) of impacted soil was excavated and temporarily stockpiled on-site pending final disposition to an NMOCD-approved surface waste facility.

On August 16, 2022, an alternative environmental contractor collected 11 soil samples (ESW -1 @ 1'. ESW -1 @ 2', NSW -1 @ 1', NSW-1 @ 1.5', WSW -1 @ 6". WSW-1 @ 1', SSW-1 @ 6", SSW-1 @ 1.5', BH-1 @ 2.5', BH-2 @ 2' and BH-3 @ 3') from the floor and sidewalls of the on-

site excavated area in an effort to characterize and quantify current benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons (TPH) and chloride concentrations and determine if additional inferences could be made. Laboratory analytical results indicated benzene concentrations ranged from less than the applicable laboratory method detection limit (MDL) in soil samples NSW-1 @ 1', SSW-1 @ 6", BH-1 @ 2.5' and BH-3 @ 3' to 2.98 milligrams per kilograms (mg/kg) in soil sample BH-3 @ 3'; benzene concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations ranged from 0.00386 mg/kg in soil sample BH-2 @ 2' to 121 mg/kg in soil sample ESW-1 @ 1'; BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil samples ESW-1 @ 1' (121 mg/kg), WSW-1 @ 6" (96.5 mg/kg) and BH-3 @ 3' (202 mg/kg). TPH concentrations ranged from 2,490 mg/kg in soil sample BH-2 @ 2' to 42,000 mg/kg in soil sample WSW-1 @ 6in.; TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations ranged 196 mg/kg in soil sample BH-2 @ 2' to 7,100 mg/kg in soil sample NSW-1 @ 1'; chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. A "Site and Sample Location Map" is provided as Attachment #3. A "Soil Chemistry Table" is provided as Attachment #4. Laboratory analytical reports are provided as Attachment #8.

In addition, a hand-auger was utilized to collect five (5) soil samples (AH-1 @ 2', AH-1 @ 3', AH-1 @ 4', AH-1 @ 5' and AH-1 @ 6') from the affected area proximate to the release point. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene concentrations ranged from 0.00341 mg/kg in soil sample AH-1 @ 2' to 1.42 mg/kg in soil sample AH-1 @ 5'; benzene concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations ranged from 0.0813 mg/kg in soil sample AH-1 @ 2' to 19.9 mg/kg in soil sample AH-1 @ 5'; BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations ranged from 71.5 mg/kg in soil sample AH-1 @ 6' to 1,820 mg/kg in soil sample AH-1 @ 5'; TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of AH-1 @ 5'. Chloride concentrations ranged from 216 mg/kg in soil sample AH-1 @ 2' to 1,390 mg/kg in soil sample AH-1 @ 5'; chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

Review of laboratory analytical data, and the presence of chloride impacts across portions of the site, suggests the subject release may have commingled with historical impacts not associated with the Plains 4-inch crude oil transport pipeline. Site photographs are provided as Attachment #6.

SITE INVESTIGATION ACTIVITIES

On January 26, 2023, Etech assumed environmental oversight responsibilities for the remediation of the subject release. A hand-auger was utilized to collect eight (8) soil samples (EH @ Surface, EH @ 1.5', NH @ Surface, NH @ 1.5', SH @ Surface, SH @ 1.5', WH @ Surface and WH @ 1.5') in an effort to horizontally delineate the impacted area at the site. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene and BTEX concentrations were below the applicable laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from below the applicable laboratory MDL in soil samples EH @ Surface, EH @ 1.5', NH @ Surface, SH @ 1.5', WH @ Surface and WH @ 1.5' to 289 mg/kg in soil sample SH @ Surface; TPH concentrations were

below the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample SH @ Surface. Chloride concentrations ranged from 13.3 mg/kg in soil sample NH @ Surface to 1,040 mg/kg in soil sample WH @ 1.5'; chloride concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample WH @ 1.5'.

On February 15, 2023, Etech revisited the release site in an effort to further delineate the areas characterized by soil samples SH @ Surface and WH @ 1.5'. A hand-auger was utilized to collect five (5) additional soil samples (SHB @ Surface, SHB @ 1.5', WH @ 2', WHB @ Surface and WHB @ 1.5') from inside and outside the tank battery containment. The collected soil samples were submitted to the laboratory for analysis of TPH and/or chloride. Laboratory analytical results indicated TPH concentrations ranged from below the applicable laboratory MDL in soil sample SHb @ 1.5' to 62.3 mg/kg in soil sample SHB @ Surface. Chloride concentrations ranged from less than the applicable laboratory MDL in soil samples WHB @ Surface and WHB @ 1.5' to 153 mg/kg in soil sample WH @ 2'.

On May 8, 2023, Etech oversaw the installation of an investigative soil boring/temporary monitoring well at the site. The investigative soil boring/temporary monitoring well was installed to a total depth of approximately 55 feet (ft.) below grade surface (bgs) and the bore hole was left open for 72 hours. Following the 72 hour waiting period it was determined to have been dry, which effectively demonstrated shallow groundwater was not present at the site. An NMOCD Siting Information Packet is provided as Attachment #5.

On May 26, 2023, Etech revisited the release site in an effort to characterize background soil impacts within the tank battery facility. During the site visit, a hand-auger was utilized to collect four (4) soil samples (BG1 @ 6", BG2 @ 6", BG3 @ 6" and BG4 @ 6") from representative areas not impacted by the subject release. Soil sample BG1 @ 6" was collected approximately 12 ft. north of the subject release. Soil sample BG2 @ 6" was collected approximately 30 ft. west of the subject release. Soil sample BG3 @ 6" was collected approximately 5 ft. south of the subject release. Soil sample BG4 was collected approximately 50 ft. east of the subject release. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene concentrations ranged from below the applicable laboratory MDL in soil samples BG2 @ 6" and BG3 @ 6" to 0.0166 mg/kg in soil sample BG4 @ 6"; benzene concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations ranged from 1.40 mg/kg in soil sample BG4 @ 6" to 14.6 mg/kg in soil sample BG2 @ 6"; BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations ranged from 26,000 mg/kg in soil sample BG4 @ 6" to 35,000 mg/kg in soil sample BG1 @ 6"; TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations ranged from 572 mg/kg in soil sample BG2 @ 6" to 3,010 mg/kg in soil sample BG4 @ 6"; chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On June 1, 2023, Etech revisited the release site in an effort to further characterize the vertical extent of impacts in the vicinity of the subject release. During the site visit, a hand-auger was utilized to collect two (2) soil samples (V1 @ 6' and V1 @ 7') from the central portion of the affected area. The collected soil samples were submitted to the laboratory for analysis of BTEX,

TPH and chloride. Laboratory analytical results indicated benzene and BTEX concentrations were below the applicable laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from 1,120 mg/kg in soil sample V1 @ 6' to 1,660 mg/kg in soil sample V1 @ 7'; TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations ranged from 14.2 mg/kg in soil sample V1 @ 7' to 32.3 mg/kg in soil sample V1 @ 6'; chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

During the course of site investigation activities, the environmental excavation associated with the subject release was backfilled with loose sand. Whether the excavation was backfilled from windblown sand or by an unaffiliated third party remains unclear; Plains did not backfill the excavated area.

CONCLUSIONS

Based on laboratory analytical results from the collected soil samples, field observations and remediation activities conducted to date, it can be determined that BTEX, TPH and chloride impacts present in the floor and sidewalls of the former environmental excavation are indistinguishable from preexisting, historical impacts not related to the subject pipeline. Review of publicly available environmental records suggest one or more historical releases have occurred at the facility. Additionally, an NMOCD inspection report suggests historical impacts were documented at and around the facility as recently as October 4, 2016. As of current, there are no follow-up documents shown regarding any remediation efforts associated with the historical impact addressed in the inspection report. A copy of the NMOCD Inspection Report is provided as Attachment #7.

Based on the review of initial release photographs and the size of the former environmental excavation, it was determined that the surface area impacted by the subject release was approximately 250 square feet (sq. ft.) instead of to the approximate 715 sq. ft. utilized by Plains in the initial release volume calculation spreadsheet. Utilizing the corrected surface area in the same release volume calculation spreadsheet results in a corrected volume of 2.7 bbls of crude oil in soil, as opposed to the reported 7.6 bbls, which is concurrent with field observations.

PROPOSED ACTIVITIES

Based on field observations, laboratory analytical results, the presence of historical soil impacts and incorrect reporting of the initial release volume, Plains respectfully request permission from the NMOCD and BLM to pursue one or more of the following activities in an effort to bring the Site into compliance:

- Prepare a *Remediation Summary and Soil Closure Request* detailing remediation activities conducted to date and laboratory analytical results from excavation confirmation soil samples.
- Prepare a *Remediation Summary and Deferral Request* detailing remediation activities conducted to date, laboratory analytical results from excavation confirmation soil samples and proposing remediation and/or further investigation upon decommissioning the facility.
- Advance the floor and sidewalls of the former excavation an additional 1 to 2 ft. from the current boundaries and prepare a *Remediation Summary and Soil Closure Request* detailing remediation activities conducted to date and laboratory analytical results from excavation confirmation soil samples.

• Correct and resubmit the spill volume calculation accurately documenting the release as being approximately 2.7 bbls of crude oil as opposed to the reported volume of 7.6 bbls.

If you have any questions or need any additional information, please feel free to contact myself or Karolanne Hudgens by phone or email.

Respectfully,

Joel Lowry Project Manager

Etech Environmental & Safety Solutions

Attached: Attachment #1 –NMOCD Form C-141 and Volume Calculation Sheet

Attachment #2 -Site Location Map

Attachment #3 – Site and Sample Location Map

Attachment #4 – Soil Chemistry Table

Attachment #5 – NMOCD Siting Information Packet

Attachment #6 – Site Photographs

Attachment #7 – NMOCD Inspection Report Attachment #8 – Laboratory Analytical Reports Attachment #9 – Volume Calculation Spread Sheets

Cc: Karolanne Hudgens, Plains All American Pipeline, LP Camille Bryant, Plains All American Pipeline, LP Attachment #1 -NMOCD Form C-141 and Volume Calculation Sheet

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	1 APP 222106109
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party			OGRID 3					
Contact Name Karo	Janne Hudg	Contact Tel	t Telephone 575.200. 5517					
Contact email khu	dsens G paal	Incident # (a	assigned by OCD) n APP222106 1094					
Contact Name Karo Contact email khu Contact mailing addres	s 1106 Griffith	Drive, mide	and, Texas	79706				
			of Release So					
titude 32.85	094	0/10 83 : 1		-103.85942				
3		(NAD 83 in dec	imal degrees to 5 decimo	il places)				
Site Name Plains	West B4 R	eleas-e	Site Type	pipeline				
Date Release Discovere		41	API# (if apple	cable)				
Unit Letter Section		Range	Count					
	-	100000000	1121					
F 10	175	31 E	Eddy					
Mate Oil	rial(s) Released (Select al Volume Release	I that apply and attach		ustification for the volumes provided below) Volume Recovered (bbls)				
Produced Water	Volume Release			Volume Recovered (bbls)				
The State of the S	Is the concentrat	ion of dissolved cl	hloride in the	☐ Yes ☐ No				
Condensate	Volume Release			Volume Recovered (bbls)				
Natural Gas	Volume Release	d (Mcf)		Volume Recovered (Mcf)				
	Values /Waight	Released (provide	units)	Volume/Weight Recovered (provide units)				
Other (describe)	volume/weight							

Received by OCD: 8/4/2022 6:57:16 AMState of New Mexico
Page 2 Oil Conservation Division

	D 2 63
Incident ID	nAPP2221061094 ³
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the	ne responsible party consider this a major release?
☐ Yes 🔀 No		
If YES, was immediate no	otice given to the OCD? By whom?	? To whom? When and by what means (phone, email, etc)?
	Init	ial Response
The responsible po	arty must undertake the following actions in	nmediately unless they could create a safety hazard that would result in injury
The source of the relea	ase has been stopped.	
The impacted area has	been secured to protect human hea	Ith and the environment.
Released materials hav	ve been contained via the use of ber	ms or dikes, absorbent pads, or other containment devices.
All free liquids and rec	coverable materials have been remo	ved and managed appropriately.
If all the actions described	above have not been undertaken, ex	xplain why:
has begun, please attach a i	narrative of actions to date. If ren	nence remediation immediately after discovery of a release. If remediation nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.
regulations all operators are rec public health or the environmer failed to adequately investigate	quired to report and/or file certain release. The acceptance of a C-141 report be and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and use notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In actor of responsibility for compliance with any other federal, state, or local laws
Printed Name: Kanlo	unne Hudgens	Title: HSE Remediation Specialist 11
Signature:	-24	Date: 08/04/2022
email: khudgens @	paalp.com	Telephone: 575.200.5517
OCD Only		
Received by:Jocelyn	Harimon	Date:
Released to Imaging: 8/4/20	022 8:28:32 AM	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 131357

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	131357
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-	8/4/2022

	Est. Pore
Soil Type	Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche Pad	16%
Loosely Compacted	
Caliche Pad	20%

Released to Imaging: 3/18/2024 1:13:00 PM

Plains West B4 (Original) Location:

Rule of Thumb

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet 0 = Cubic Feet

= Length in Feet 0 = Gallons Per Total Cubic Feet

= Depth in Inches

0 = Depth in Feet 0 = Gallons Of Oil In Soil 0.0 = Barrel Of Oil In Soil

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing,

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

30 = Width in Feet 15 = Length in Feet

202 = Gallons Of Oil In Soil

450 = Square Feet Subtotal

6 = Depth in Inches 0.5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

201.96 = Gallons of Oil In Soil 4.8 = Barrels of Oil In Soil

225 = Cubic Feet

1683 = Gallons Per Total Cubic Feet

4.8 = Barrel Of Oil In Soil

There Are 7.48 Gallons Of Oil Per Cubic Foot

264 = Square Feet Subtotal

12% = Estimated Pore Space

33 = Width in Feet

8 = Length in Feet

6 = Depth in Inches

0.5 = Depth in Feet

Width Times Length Times Depth = Cubic Feet

132 = Cubic Feet

987.36 = Gallons Per Total Cubic Feet

118 = Gallons Of Oil In Soil

2.8 = Barrel Of Oil In Soil

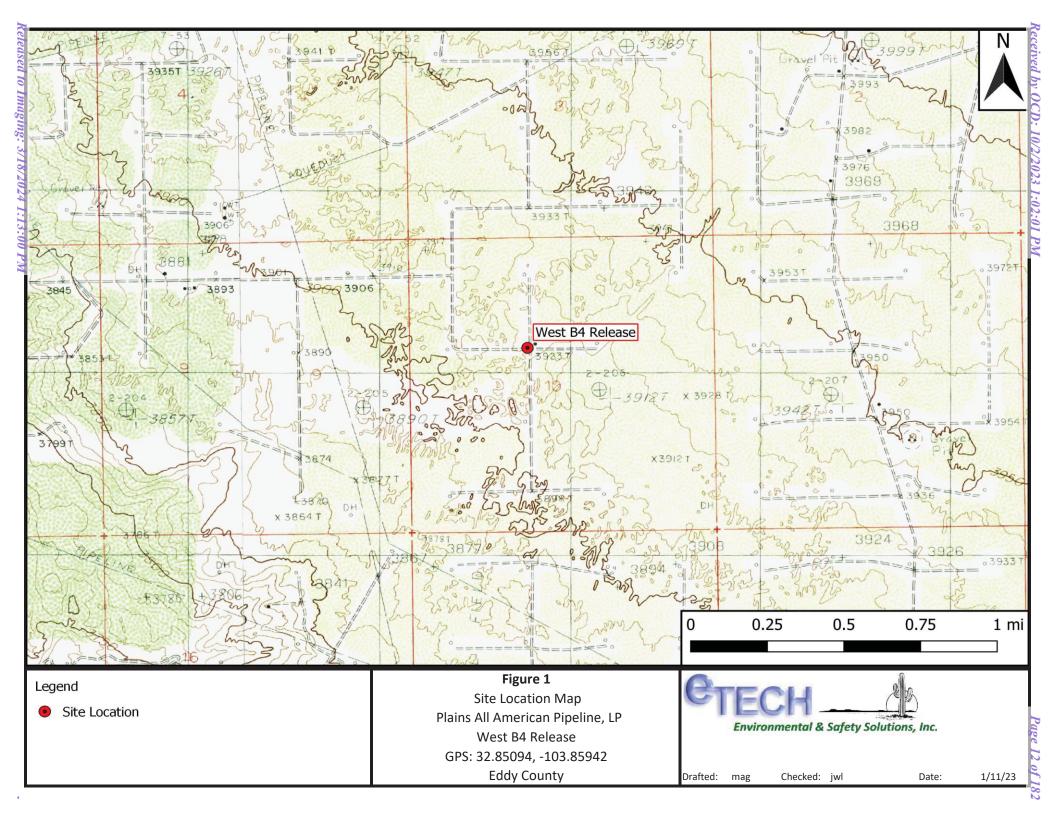
118.48 = Gallons of Oil In Soil

2.8 = Barrels of Oil In Soil

Total Square Feet	714
Cubic Feet	357
Gallons per Total Cubic Feet	2670.36
Gallons of Oil in Soil	320.4432
Total Estimated Barrels of Oil in Soil	7.6

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Attachment #2 -Site Location Map



Attachment #3 – Site and Sample Location Map



Attachment #4 – Soil Chemistry Table

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Plains All American Pipeline, LP
West B4 Release
NMOCD Ref. #: nAPP2221061094

NMOCD Closure Criteria			10	50	-	-	1,000	-	2,500	20,000	
NMOCD	NMOCD Reclamation Standard			10	50	-				- 100	
				SW 840	6 8021B SW 846 8015M Ext.				4500 Cl		
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
AH-1 @ 2FT	8/16/2022	2	In-Situ	0.00341	0.0813	<29.1	631	631	108	739	216
AH-1 @ 3FT	8/16/2022	3	In-Situ	0.00615	0.519	40.3	78.7	119	40.6	160	614
AH-1 @ 4FT	8/16/2022	4	In-Situ	0.0681	1.59	84.7	201	286	106	392	757
AH-1 @ 5FT	8/16/2022	5	In-Situ	1.42	19.9	263	1,130	1,390	425	1,820	1,390
AH-1 @ 6FT	8/16/2022	6	In-Situ	0.0345	0.658	32.8	38.7	71.5	<25.5	71.5	534
BH - 1 @ 2.5FT	8/16/2022	2.5	In-Situ	< 0.00108	0.144	544	7,140	7,680	2,100	9,780	587
BH - 2 @ 2FT	8/16/2022	2	In-Situ	< 0.00103	0.00386	<515	1,770	1,770	713	2,490	196
BH - 3 @ 3FT	8/16/2022	3	In-Situ	2.98	202	6,230	15,000	21,200	3,160	24,400	545
ESW - 1 @ 1FT	8/16/2022	1	In-Situ	1.13	121	5,890	24,800	30,700	4,610	35,300	378
ESW - 1 @ 2FT	8/16/2022	2	In-Situ	0.0747	25.8	2,310	15,300	17,600	2,730	20,300	266
NSW - 1 @ 1FT	8/16/2022	1	In-Situ	< 0.00102	0.467	1,030	23,600	24,600	4,090	28,700	7,100
NSW - 1 @ 1.5FT	8/16/2022	1.5	In-Situ	0.00160	1.25	1,810	18,400	20,200	3,150	23,400	624
SSW - 1 @ 6in	8/16/2022	0.5	In-Situ	< 0.0206	3.94	699	19,500	20,200	4,300	24,500	646
SSW - 1 @ 1.5FT	8/16/2022	1.5	In-Situ	0.0145	22.7	2,000	29,600	31,600	5,360	36,900	211
WSW - 1 @ 6in.	8/16/2022	0.5	In-Situ	0.0845	96.5	5,590	31,300	36,900	5,040	42,000	1,340
WSW - 1 @ 1FT	8/16/2022	1	In-Situ	0.0554	37.6	5,720	29,200	34,900	4,810	39,700	2,660
EH @ Surface	1/26/2023	0	In-Situ	< 0.00106	< 0.00637	<26.6	<26.6	<53.2	<26.6	<79.8	26.7
EH @ 1.5'	1/26/2023	1.5	In-Situ	< 0.00111	< 0.00666	<27.8	<27.8	<55.6	<27.8	<83.4	100
NH @ Surface	1/26/2023	0	In-Situ	< 0.00114	< 0.00683	<28.4	<28.4	< 56.8	<28.4	<85.2	13.3
NH @ 1.5'	1/26/2023	1.5	In-Situ	< 0.00110	< 0.0066	<27.5	49.1	49.1	36.8	85.9	28.6
SH @ Surface	1/26/2023	0	In-Situ	< 0.00112	< 0.00673	<28.1	196	196	92.5	289	470
SH @ 1.5'	1/26/2023	1.5	In-Situ	< 0.00109	< 0.00653	<27.2	<27.2	<54.4	<27.2	<81.6	342
WH @ Surface	1/26/2023	0	In-Situ	< 0.00112	< 0.00673	<28.1	<28.1	< 56.2	<28.1	<84.3	282
WH @ 1.5'	1/26/2023	1.5	In-Situ	< 0.00112	< 0.00673	<28.1	<28.1	< 56.2	<28.1	<84.3	1,040
SHB @ Surface	2/15/2023	0	In-Situ	-	-	<26.9	34.6	34.6	27.7	62.3	-
SHB @ 1.5'	2/15/2023	1.5	In-Situ	-	-	<27.2	<27.2	<27.2	<27.2	<27.2	-
WH @ 2'	2/15/2023	2	In-Situ	-	-	-	_	-	-	-	153
WHB @ Surface		Surf.	In-Situ	-	-	-	-	-	-	-	<1.05
WHB @ 1.5'	2/15/2023	1.5	In-Situ	-	-	-	-	-	-	-	<1.06
BG1 @ 6"	5/26/2023	0.5	In-Situ	0.00159	11.7	2,820	32,200	35,000	5,340	40,400	824
BG2 @ 6"	5/26/2023	0.5	In-Situ	ND	14.6	2,940	30,900	33,800	5,080	38,900	572
BG3 @ 6"	5/26/2023	0.5	In-Situ	ND	11.4	2,730	29,800	32,500	5,000	37,500	813
BG4 @ 6"	5/26/2023	0.5	In-Situ	0.0166	1.40	2,650	23,300	26,000	4,120	30,070	3,010
V1 @ 6'	6/1/2023	6	In-Situ	ND	ND	33.4	1,090	1,120	474	1,600	32.3
V1 @ 7'	6/1/2023	7	In-Situ	ND	ND	ND	1,660	1,660	676	2,340	14.2

Attachment #5 – NMOCD Siting Information Packet



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD

Sub-Q Q QWater **POD Number** basin County 64 16 4 Sec Tws Rng X Y DistanceDepthWellDepthWater Column Code 1749 L 14207 POD3 L 2 3 3 31 16S 37E 606117 3636977 240 144 RA 13235 POD1 RAED 1 1 1 21 17S 31E 604631 3632537 3500 102

Average Depth to Water:

96 feet

Minimum Depth:

96 feet

Maximum Depth:

96 feet

Record Count: 2

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 606729.96 **Northing (Y):** 3635338.65 **Radius:** 4830

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/11/23 7:31 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

L 14207 POD3

31 16S 37E 606117 3636977

Driller License:

Driller Company:

1456

WHITE, JOHN W

WHITE DRILLING COMPANY

Driller Name:

10/03/2016

Drill Finish Date:

10/12/2016 **Plug Date:**

Log File Date:

Drill Start Date:

PCW Rcv Date: 12/12/2016

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

96 feet

Casing Size: 4.00 Depth Well:

240 feet

Depth Water:

Water Bearing Stratifications:	Тор	Bottom	Description
	75	140	Sandstone/Gravel/Conglomerate
	140	200	Sandstone/Gravel/Conglomerate
	200	205	Sandstone/Gravel/Conglomerate
	205	218	Sandstone/Gravel/Conglomerate
	218	236	Sandstone/Gravel/Conglomerate
	236	237	Sandstone/Gravel/Conglomerate
	237	240	Sandstone/Gravel/Conglomerate
Casing Perforations:	Тор	Bottom	
	90	220	

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1/11/23 7:31 AM

POINT OF DIVERSION SUMMARY



NA

New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

604631

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

1 1 1 21 17S 31E

3632537



Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: JACKIE D ATKINS

RA 13235 POD1

Drill Start Date: 10/08/2022 **Drill Finish Date:** 10/09/2022 **Plug Date:** Log File Date: 11/04/2022 **PCW Rcv Date:** Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:102 feetDepth Water:

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1/11/23 7:31 AM

POINT OF DIVERSION SUMMARY



	OSE POD NO	. (WELL NO	.)		WELL TAG ID NO.				FILE NO(S	5).				
1. GENERAL AND WELL LOCATION	POD-1 n/a							RA-13235						
ATI	WELL OWNER NAME(S)							PHONE (OPTIONAL)						
00	Spur Energy Partners LLC													
T	WELL OWNE							CITY				STATE		ZIP
WEI	919 Milam	St Ste 24	75					Hous	ston		1	ГХ	77002	
è	WELL		Di	EGREES	GREES MINUTES SECONDS									
[V]	LOCATION LATITUDE			32	49	33.	16 _N	* AC	CURACY	REQUIRED: O	NE TENTH	OF A	SECOND	
RA	(FROM GPS)		O Programme and the Comment of the C	103	52	55.	80 W	* DA	TUM REC	UIRED: WGS	84			
ENE	LONGITUDE 103 32 33.60 W DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILABLE													
1. G	The second section of		T17S R31E, NMI		KESS AND COMMON	LANDIN	AICKS - I LO	is (SEC	11011, 10	WHOIDH, KA	(GE) WIEL	w.n.	ALLADED	
	LICENSE NO).	NAME OF LICENSEI	DRILLER						NAME OF W	ELL DRIL	LING	COMPANY	
	124	19			Jackie D. Atkins					Atl	cins Engin	eerin	g Associates, I	nc.
	DRILLING S'		DRILLING ENDED	DEPTH OF CO	OMPLETED WELL (FT)	BORE HO		TH (FT)	DEPTH WA	TER FIRST		OUNTERED (FT)	
	10/8/2	2022	10/9/2022		102		=	±102				n/	a	
z	COMPLETED WELL IS: ARTESIAN			✓ DRY HO	DRY HOLE SHALLOW (UNCONFINED)					WATER LEVE PLETED WELL			DATE STATIC	
IIO	DRILLING F	LUID:	☐ AIR	☐ MUD	ADDITIV	ES – SPEC	CIFY:							
DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:						Iollov	v Stem A	Auger	CHECK H	ERE II	F PITLESS ADAI	TER IS	
INF	DEPTH (feet bgl) BORE HOLE			CASING	MATERIAL AND	/OR	C	ASING		CASIN	IG	CAS	SING WALL	SLOT
Ğ	FROM TO DIAM		GRADE (include each casing string, and		CONNECTION		1.01010111111			HICKNESS	SIZE			
ASI	(inches)							TYPE add coupling diameter)		(inches)			(inches)	(inches)
8 0	0	102	±6.5	Soil Boring		-							-	
NG														
3														
BE														
7														
				-										
				-		_						_		
			+	+										
.,	DEPTH	(feet bgl)	BORE HOLE		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL					METHOD OF PLACEMENT				
ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRA	AVEL PACK SIZE-	RANGI	BYINTE	ERVAI	-	(cubi	c feet)	_	PLACEN	IENI
TE												_		
WA										- OSE N	HOW TH	4 74	22 pm4+01	
'AR										Seed Seed Seed. Seed.	27 1724		to the Transition	
15N				-								+		
AN				-								\rightarrow		
ъ.			-	-								+		
FOR	OSE INTER	NAL USE							WR-2	WELL RE	CORD &	LOG	(Version 01/2	8/2022)

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

Released to Imaging: 3/18/2024 1:13:00 PM

FILE NO.

LOCATION

3235

	DEPTH (f	eet bgl)			T		ESTIMATED			
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	s	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)			
	0	4	4	Sand, Fine-grained with caliche, Tanish white		Y ✓N				
	4	14	10	Sand, Fine-grained, poorly graded, unconsolidated, Tann		Y ✓N				
	17	70	53	Sand, Fine-grained, poorly graded, unconsolidated, Reddish Brown		Y ✓N				
0	70	102	32	Clay, consolidated, Reddish Brown		y ✓n				
						Y N				
4						Y N				
WEI						Y N				
OF						Y N				
200						Y N				
4. HYDROGEOLOGIC LOG OF WELL						Y N				
TOC						Y N				
GEO						Y N				
)RO						Y N				
HXI						Y N				
4						Y N				
						Y N				
						Y N				
						Y N				
						Y N				
						Y N				
						Y N				
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	TOTA	L ESTIMATED				
	PUMP AIR LIFT BAILER OTHER - SPECIFY:						0.00			
NO	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV						
TEST; RIG SUPERVISION	MISCELLA	NEOUS INF	ORMATION: Re	emoved well material, back filled from total depth to 10 feet below	ground	d surface. Then pl	ugged using			
UPE	hydrated benonite hole plug from 10 below ground surface to surface.									
ac s		OSE DII NOU 4 2022 PM4:01								
ST; 1										
S. TE				VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ISTRUC	CTION OTHER TH	AN LICENSEE:			
4,	Shane Eldric	ige, Camer	ron Pruitt							
TURE	CORRECT F	RECORD O	F THE ABOVE D	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL OD DAYS AFTER COMPLETION OF WELL DRILLING:						
6. SIGNATURE	Jack A	tkins		Jackie D. Atkins		11/1/2022				
•		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE				
FOI	R OSE INTERI	NAL USE		WR-20 WF	LLREC	CORD & LOG (Ver	rsion 01/28/2022)			

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

Released to In	aging	2/19/2/	024 1.	12.00	DM
keleasea to in	iaging: :	5/ / 6/ / 1	124 13	13200	PVI

FILE NO.

LOCATION



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

LWD 03233 POD1

4 16 17S 31E

605524 3633307*

Ç)

Driller License:

Driller Company:

Driller Name:

Drill Start Date: Plug Date:
Log File Date: PCW Rcv Date: Source:

Pump Type: Pipe Discharge Size: Estimated Yield: Casing Size: Depth Well: Depth Water:

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1/11/23 7:43 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



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National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:				
USUS Water Resources	Groundwater	~	United States	∨ GO			

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Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs **site_no list** = • 325211103462901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325211103462901 16S.32E.33.332112

Available data for this site Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°52'27", Longitude 103°46'38" NAD27

Land-surface elevation 4,195.00 feet above NGVD29

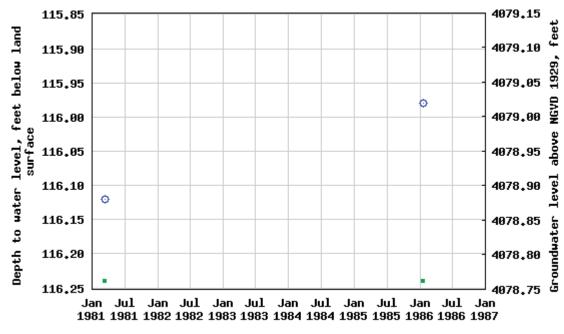
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	





- Period of approved data

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

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2023-01-11 09:27:05 EST

0.6 0.51 nadww01





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U303 Water Resources	Groundwater	~	United States	~	GO		
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Groundwater levels for the Nation							
Important: Next Generation Monitor	ring Location Pa	<u>age</u>					
Search Results 1 sites found	d						

Agency code = usgs site_no list =

325223103462501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

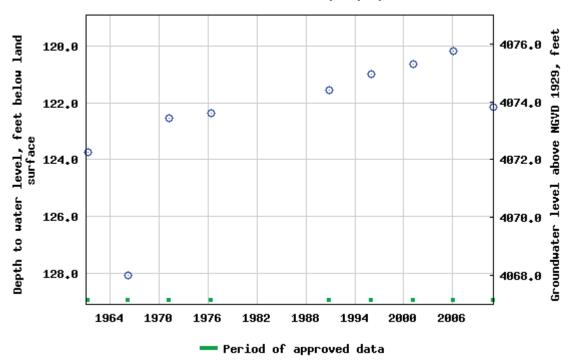
USGS 325223103462501 16S.32E.33.33212

Available data for this site | Groundwater: Field measurements | GO |
Lea County, New Mexico | Hydrologic Unit Code 13060011 |
Latitude 32°52'26", Longitude 103°46'37" NAD27 |
Land-surface elevation 4,196.00 feet above NGVD29 |
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

USGS 325223103462501 165,32E,33,33212



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0.58 0.49 nadww01





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National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:	_	
USGS Water Resources	Groundwater	~	United States	~	GO]

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs **site_no list** = • 325312103481901

Minimum number of levels = 1

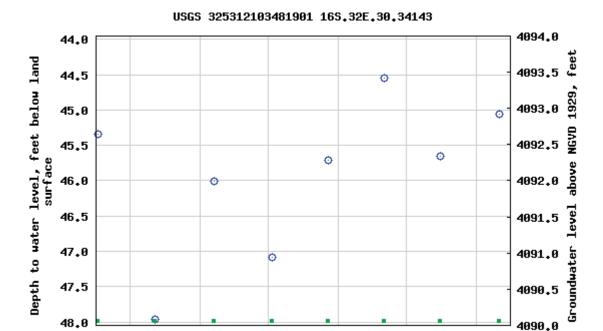
Save file of selected sites to local disk for future upload

USGS 325312103481901 16S.32E.30.34143

Available data for this site | Groundwater: Field measurements | GO |
Lea County, New Mexico |
Hydrologic Unit Code 13060011 |
Latitude 32°53'14", Longitude 103°48'32" NAD27 |
Land-surface elevation 4,138.00 feet above NGVD29 |
The depth of the well is 101 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



— Period of approved data

1976

1970

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

1988

1994

1982

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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Page Last Modified: 2023-01-11 09:27:06 EST

0.59 0.49 nadww01





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National Water Information System: Web Interface

USGS Water Resources	Pesources Data Category:				
vater resources	Groundwater	~	United States	~	GO

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Agency code = usgs **site_no list** = • 325347103494901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

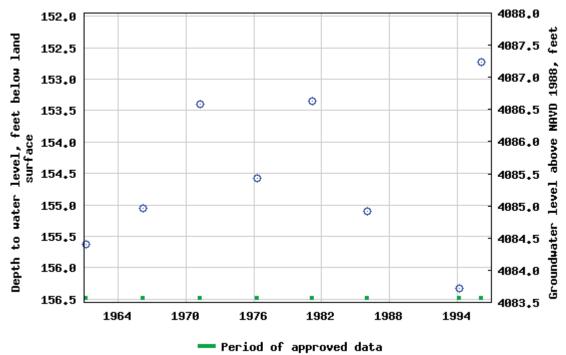
USGS 325347103494901 16S.31E.23.444321

Available data for this site | Groundwater: Field measurements | GO |
Eddy County, New Mexico |
Hydrologic Unit Code 13060011 |
Latitude 32°53'47", Longitude 103°49'49" NAD27 |
Land-surface elevation 4,240 feet above NAVD88 |
The depth of the well is 167 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Table of data Tab-separated data Graph of data Reselect period





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

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

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0.54 0.49 nadww01



Logger:
Driller:
Consultant:
Drilling Method:
Start Date:
End Date:

Zach Conder White Drilling Etech Environmental Air Rotary May 8, 2023 May 8, 2023

Comments: Drilled temp well per NMOCD Guidance to check for

shallow groundwater, dry after 72 hrs

Drafted by: Joel Lowry



Project Name: Plains West B4 Well ID: RA-13324

Location:

Lat: 32.85075 Long: -103.85956

County: Eddy State: NM

				LOI	ig: -103.859	30		3	tate: NM	
Depth (feet)	Chloride field tests	LAB	PID	Description		Lithology		Well Cons		nstruction
	-	-	-	Imported Fill/Caliche						Water Strike
5	-	-	-	Reddish Tan Sand				Op		
	-	-	-	Reddish Tan Sand				e n		
10	-	-	-	Reddish Tan Sand						
	-	ı	-	Reddish Tan Sand				H		
15	-	ı	-	Brown Silty Sand				l e		
	-	-	-	Brown Silty Sand						
20	-	-	-	Brown Silty Sand						
	-	-	-	Brown Silty Sand						
25	-	ı	-	Brown Silty Sand						
	-	-	-	Brown Silty Sand						
30	-	-	-	Brown Silty Sand						NA
	-	-	-	Brown Silty Sand						
35	-	-	-	Brown Silty Sand						
	-	-	-	Brown Silty Sand						
40	-	-	-	Brown Silty Sand						
	-	-	-	Brown Silty Sand						
45	-	-	-	Brown Silty Sand w. Clay						
	-	-	-	Brown Silty Sand w. Clay						
50	-	-	-	Brown Silty Sand w. Clay						
	-	-	-	Brown Silty Sand w. Clay						
55	-	-	-	TD 55 Ft.						

 $Attachment \ \#6-Site\ Photographs$



Figure 1- View of Initial Release, facing west.



Figure 2 – View of surface staining from initial release, facing east.



Figure 3 – View of surface staining from initial release, facing northwest.



Figure 4 – View of surface staining from the initial release and initial response activities, facing west.



Figure 5 – View of surface staining from the initial release and initial response activities, facing northwest.



Figure 6 – View of portion of the excavated area, facing northeast.



Figure 7 – View of portion of the excavated area, facing southwest.



Figure 8 – View of portion of the excavated area, facing north.



Figure 9 – View of historical soil impacts.



Figure 10 – View of historical soil impacts.



Figure 11 – View of historical soil impacts.



Figure 12 – View of historical soil impacts and delineation activities.



Figure 13 – View of former excavated area, facing northwest.



Figure 14 – View of former excavated area, facing east.

Attachment #7 – NMOCD Inspection Report

10/4/2016

NMOCD District II Staff

Site Inspection

Photo Documentation

Linn Energy

HE West B #4 Battery

(HE West B 38)

30-015-26001

2RP-1060









































 $Attachment \ \#8-Laboratory \ Analytical \ Reports$

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



Analytical Report

Prepared for:

Elizabeth Stuart

Dean

12600 W County Rd 91

Midland, TX 79707

Project: PP-22234- West B4 Release

Project Number: PP-22234 Location: Eddy County, NM

Lab Order Number: 2H17011



Current Certification

Report Date: 08/25/22

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 1 @ 2FT	2H17011-01	Soil	08/16/22 11:00	08-17-2022 12:53
AH - 1 @ 3FT	2H17011-02	Soil	08/16/22 11:05	08-17-2022 12:53
AH - 1 @ 4FT	2H17011-03	Soil	08/16/22 11:10	08-17-2022 12:53
AH - 1 @ 5FT	2H17011-04	Soil	08/16/22 11:15	08-17-2022 12:53
AH - 1 @ 6FT	2H17011-05	Soil	08/16/22 11:20	08-17-2022 12:53

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

AH - 1 @ 2FT 2H17011-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	0.00341	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Toluene	0.0198	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Ethylbenzene	0.0104	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Xylene (p/m)	0.0290	0.00233	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Xylene (o)	0.0187	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	80-120		P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.0 %	80-120		P2H1811	08/18/22 16:11	08/19/22 00:42	EPA 8021B	
General Chemistry Parameters by	y EPA / Stand	lard Metl	hods						
Chloride	216	1.16	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 14:50	EPA 300.0	
% Moisture	14.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons Co	6-C35 by EPA	Method	18015M						
C6-C12	ND	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:10	TPH 8015M	
>C12-C28	631	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:10	TPH 8015M	
>C28-C35	108	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:10	TPH 8015M	
Surrogate: 1-Chlorooctane		84.0 %	70-130		P2H1809	08/18/22 16:04	08/22/22 19:10	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P2H1809	08/18/22 16:04	08/22/22 19:10	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	739	29.1	mg/kg dry	1	[CALC]	08/18/22 16:04	08/22/22 19:10	cale	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

AH - 1 @ 3FT 2H17011-02 (Soil)

Analyta		Reporting							3.7
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B						,			
Benzene	0.00615	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Toluene	0.0488	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Ethylbenzene	0.0895	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Xylene (p/m)	0.267	0.00233	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Xylene (o)	0.108	0.00116	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:03	EPA 8021B	
	EDA / C/	1 137 4							
General Chemistry Parameters b			mg/kg dry	1	D2111017	09/10/22 17:07	09/24/22 15:02	EDA 200.0	
Chloride	614	1.16	mg/kg ury	1	P2H1916	08/19/22 16:07	08/24/22 15:03	EPA 300.0	
% Moisture	14.0	0.1	70	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C	6-C35 by EPA	A Method	8015M						
C6-C12	40.3	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/21/22 16:10	TPH 8015M	
>C12-C28	78.7	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/21/22 16:10	TPH 8015M	
>C28-C35	40.6	29.1	mg/kg dry	1	P2H1809	08/18/22 16:04	08/21/22 16:10	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P2H1809	08/18/22 16:04	08/21/22 16:10	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P2H1809	08/18/22 16:04	08/21/22 16:10	TPH 8015M	
Total Petroleum Hydrocarbon	160	29.1	mg/kg dry	1	[CALC]	08/18/22 16:04	08/21/22 16:10	calc	
C6-C35									

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

AH - 1 @ 4FT 2H17011-03 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental l	Lab, L.P.			
BTEX by 8021B						,			
Benzene	0.0681	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Toluene	0.341	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Ethylbenzene	0.335	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Xylene (p/m)	0.571	0.00204	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Xylene (o)	0.275	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.7 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:25	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	757	1.02	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 15:17	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	A Method	8015M						
C6-C12	84.7	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:33	TPH 8015M	
>C12-C28	201	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:33	TPH 8015M	
>C28-C35	106	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 19:33	TPH 8015M	
Surrogate: 1-Chlorooctane		91.6 %	70-130		P2H1809	08/18/22 16:04	08/22/22 19:33	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P2H1809	08/18/22 16:04	08/22/22 19:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	392	25.5	mg/kg dry	1	[CALC]	08/18/22 16:04	08/22/22 19:33	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

AH - 1 @ 5FT 2H17011-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		D	ormion B	osin Envi	ronmental I	ah I D			
		Г	егинан Б	asın envi	ronnientai i	Lau, L.F.			
BTEX by 8021B									
Benzene	1.42	0.0213	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Toluene	6.49	0.0213	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Ethylbenzene	3.58	0.0213	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Xylene (p/m)	6.22	0.0426	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Xylene (o)	2.18	0.0213	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	8	80.0 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		P2H1811	08/18/22 16:11	08/19/22 01:46	EPA 8021B	
General Chemistry Parameters by 1									
Chloride	1390	1.06	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 15:30	EPA 300.0	
% Moisture	6.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	263	26.6	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 20:41	TPH 8015M	
>C12-C28	1130	26.6	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 20:41	TPH 8015M	
>C28-C35	425	26.6	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 20:41	TPH 8015M	
Surrogate: 1-Chlorooctane	8	39.9 %	70-130		P2H1809	08/18/22 16:04	08/22/22 20:41	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P2H1809	08/18/22 16:04	08/22/22 20:41	TPH 8015M	
Total Petroleum Hydrocarbon	1820	26.6	mg/kg dry	1	[CALC]	08/18/22 16:04	08/22/22 20:41	calc	
C6-C35									

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

AH - 1 @ 6FT 2H17011-05 (Soil)

			·	·	·		_		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	0.0345	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Toluene	0.190	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Ethylbenzene	0.117	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Xylene (p/m)	0.230	0.00204	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Xylene (o)	0.0861	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.5 %	80-120		P2H1811	08/18/22 16:11	08/19/22 02:07	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	534	1.02	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 15:43	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	A Method	8015M						
C6-C12	32.8	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 08:53	TPH 8015M	
>C12-C28	38.7	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 08:53	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2H1809	08/18/22 16:04	08/22/22 08:53	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P2H1809	08/18/22 16:04	08/22/22 08:53	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P2H1809	08/18/22 16:04	08/22/22 08:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	71.5	25.5	mg/kg dry	1	[CALC]	08/18/22 16:04	08/22/22 08:53	calc	

12600 W County Rd 91 Project Number: PP-22234
Midland TX, 79707 Project Manager: Elizabeth Stuart

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1811 - *** DEFAULT PREP **										
Blank (P2H1811-BLK1)				Prepared &	. Analyzed	08/18/22				
Benzene	ND	0.00100	mg/kg	1 Topulou co	, , , , , , , , , , , , , , , , , , ,	00,10,22				
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Kylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0986		"	0.120		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
.CS (P2H1811-BS1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Kylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Kylene (o)	0.102	0.00100	"	0.100		102	80-120			
Gurrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
LCS Dup (P2H1811-BSD1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.0982	0.00100	mg/kg	0.100		98.2	80-120	12.1	20	
Toluene	0.0911	0.00100	"	0.100		91.1	80-120	13.5	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	11.9	20	
Kylene (p/m)	0.180	0.00200	"	0.200		90.0	80-120	12.3	20	
Kylene (o)	0.0885	0.00100	"	0.100		88.5	80-120	14.3	20	
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.0974		"	0.120		81.2	80-120			
Calibration Blank (P2H1811-CCB1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.160	<u> </u>	ug/kg		<u> </u>	<u> </u>				·
Coluene	0.280		"							
Ethylbenzene	0.330		"							
Kylene (p/m)	0.410		"							
Xylene (o)	0.240		"							
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.0986		"	0.120		82.2	80-120			

Permian Basin Environmental Lab, L.P.

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

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1811 - *** DEFAULT PREP ***	÷									
Calibration Blank (P2H1811-CCB2)				Prepared 8	k Analyzed:	08/18/22				
Benzene	0.180		ug/kg							
Toluene	0.990		"							
Ethylbenzene	0.380		"							
Xylene (p/m)	0.800		"							
Xylene (o)	0.370		"							
Surrogate: 1,4-Difluorobenzene	0.0976		"	0.120		81.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
Calibration Check (P2H1811-CCV1)				Prepared 8	ኔ Analyzed:	08/18/22				
Benzene	0.113	0.00100	mg/kg	0.102		111	80-120			
Toluene	0.105	0.00100	"	0.102		103	80-120			
Ethylbenzene	0.107	0.00100	"	0.102		105	80-120			
Xylene (p/m)	0.203	0.00200	"	0.204		99.5	80-120			
Xylene (o)	0.102	0.00100	"	0.102		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		118	75-125			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.7	75-125			
Calibration Check (P2H1811-CCV2)				Prepared 8	ኔ Analyzed:	08/18/22				
Benzene	0.112	0.00100	mg/kg	0.102		110	80-120			
Toluene	0.106	0.00100	"	0.102		104	80-120			
Ethylbenzene	0.103	0.00100	"	0.102		101	80-120			
Xylene (p/m)	0.205	0.00200	"	0.204		101	80-120			
Xylene (o)	0.102	0.00100	"	0.102		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.147		"	0.120		123	75-125			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.8	75-125			
Calibration Check (P2H1811-CCV3)				Prepared: (08/18/22 A	nalyzed: 08	/19/22			
Benzene	0.102	0.00100	mg/kg	0.102		100	80-120			
Toluene	0.0927	0.00100	"	0.102		90.9	80-120			
Ethylbenzene	0.0919	0.00100	"	0.102		90.1	80-120			
Xylene (p/m)	0.174	0.00200	"	0.204		85.2	80-120			
Xylene (o)	0.0922	0.00100	"	0.102		90.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.160		"	0.120		133	75-125			S-0
Surrogate: 1,4-Difluorobenzene	0.0987		"	0.120		82.3	75-125			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1811 - *** DEFAULT PREP ***										
Matrix Spike (P2H1811-MS1)	Sour	rce: 2H18001	-01	Prepared: 0	08/18/22 A	nalyzed: 08	/19/22			
Benzene	0.0953	0.00116	mg/kg dry	0.116	ND	82.0	80-120			
Toluene	0.0866	0.00116	"	0.116	ND	74.5	80-120			QM-05
Ethylbenzene	0.0939	0.00116	"	0.116	ND	80.8	80-120			
Xylene (p/m)	0.175	0.00233	"	0.233	ND	75.0	80-120			QM-05
Xylene (o)	0.0829	0.00116	"	0.116	ND	71.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.119		"	0.140		85.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.195		"	0.140		140	80-120			S-GC

Matrix Spike Dup (P2H1811-MSD1)	Sour	ce: 2H18001	1-01	Prepared: 0	8/18/22 A	nalyzed: 08	3/19/22			
Benzene	0.100	0.00116	mg/kg dry	0.116	ND	86.4	80-120	5.25	20	
Toluene	0.0915	0.00116	"	0.116	ND	78.7	80-120	5.50	20	QM-05
Ethylbenzene	0.100	0.00116	"	0.116	ND	86.1	80-120	6.36	20	
Xylene (p/m)	0.177	0.00233	"	0.233	ND	75.9	80-120	1.18	20	QM-05
Xylene (o)	0.0892	0.00116	"	0.116	ND	76.7	80-120	7.34	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.192		"	0.140		138	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.118		"	0.140		84.3	80-120			

12600 W County Rd 91Project Number: PP-22234Midland TX, 79707Project Manager: Elizabeth Stuart

Result ND	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
ND									
ND									
ND			Prepared &	Analyzed:	08/18/22				
	0.1	%							
			Prepared &	Analyzed:	08/18/22				
ND	0.1	%	-						
Source	e: 2H16015-	01	Prepared &	Analyzed:	08/18/22				
9.0	0.1	%	*	9.0			0.00	20	
Source	e: 2H16019-	01	Prepared &	Analyzed:	08/18/22				
8.0	0.1	%	•	7.0			13.3	20	
Source	e: 2H16023-	04	Prepared &	Analyzed:	08/18/22				
ND	0.1	%		ND				20	
Source	e: 2H16026-	01	Prepared &	Analyzed:	08/18/22				
5.0	0.1	%		5.0			0.00	20	
Source	e: 2H17010-	09	Prepared &	Analyzed:	08/18/22				
7.0	0.1	%	1	7.0			0.00	20	
Source	e: 2H17012-	03	Prepared &	Analyzed:	08/18/22				
7.0	0.1	%	1	7.0			0.00	20	
Source	e: 2H17016-	02	Prepared &	Analyzed:	08/18/22				
6.0	0.1	%		6.0			0.00	20	
Source	e· 2H17017_	03	Prepared &	Analyzed:	08/18/22				
6.0	0.1	%	1 repared &	5.0	00/10/22		18.2	20	
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12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1916 - *** DEFAULT PREP ***					<u> </u>					
Blank (P2H1916-BLK1)				Prepared &	Analyzed:	08/24/22				
Chloride	ND	1.00	mg/kg							
LCS (P2H1916-BS1)				Prepared &	Analyzed:	08/24/22				
Chloride	40.6		mg/kg	40.0		102	90-110			
LCS Dup (P2H1916-BSD1)				Prepared &	Analyzed:	08/24/22				
Chloride	42.1		mg/kg	40.0		105	90-110	3.61	10	
Calibration Blank (P2H1916-CCB1)				Prepared &	Analyzed:	08/24/22				
Chloride	0.0310		mg/kg							
Calibration Blank (P2H1916-CCB2)				Prepared &	Analyzed:	08/24/22				
Chloride	0.0960		mg/kg							
Calibration Check (P2H1916-CCV1)				Prepared &	Analyzed:	08/24/22				
Chloride	20.1		mg/kg	20.0		101	90-110			
Calibration Check (P2H1916-CCV2)				Prepared &	: Analyzed:	08/24/22				
Chloride	18.6		mg/kg	20.0	-	92.9	90-110			
Calibration Check (P2H1916-CCV3)				Prepared &	Analyzed:	08/24/22				
Chloride	20.4		mg/kg	20.0	-	102	90-110			
Matrix Spike (P2H1916-MS1)	Sou	rce: 2H16025	-01	Prepared &	: Analyzed:	08/24/22				
Chloride	2610	10.9	mg/kg dry	543	1990	115	80-120			
Matrix Spike (P2H1916-MS2)	Sou	rce: 2H17010	-07	Prepared &	: Analyzed:	08/24/22				
	Sou		· ·							

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1916 - *** DEFAULT PREP ***									
Matrix Spike Dup (P2H1916-MSD1)	Sourc	e: 2H16025-01	Prepared &	Analyzed:	08/24/22				
Chloride	2570	10.9 mg/kg dry	543	1990	107	80-120	1.51	20	
Matrix Spike Dup (P2H1916-MSD2)	Sourc	e: 2H17010-07	Prepared &	Analyzed:	08/24/22				
Chloride	846	1.03 mg/kg dry	258	646	77.6	80-120	0.791	20	QM-05

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

		Reporting	•	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2H1809 - TX 1005										
Blank (P2H1809-BLK1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			
LCS (P2H1809-BS1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	1020	25.0	mg/kg	1000		102	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			
LCS Dup (P2H1809-BSD1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	983	25.0	mg/kg	1000		98.3	75-125	3.56	20	
>C12-C28	1000	25.0	"	1000		100	75-125	3.08	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			
Calibration Check (P2H1809-CCV1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	532	25.0	mg/kg	500		106	85-115			
>C12-C28	571	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130			
Calibration Check (P2H1809-CCV2)				Prepared: (08/18/22 Aı	nalyzed: 08	/21/22			
C6-C12	550	25.0	mg/kg	500		110	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2H1809 - TX 1005										
Calibration Check (P2H1809-CCV3)				Prepared: (08/18/22 Aı	nalyzed: 08	/22/22			
C6-C12	445	25.0	mg/kg	500		89.0	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	91.1		"	100		91.1	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			
Duplicate (P2H1809-DUP1)	Sour	ce: 2H17010	-05	Prepared: (08/18/22 A1	nalyzed: 08	/22/22			
C6-C12	4930	532	mg/kg dry		5590			12.7	20	
>C12-C28	29300	532	"		31300			6.69	20	
Surrogate: 1-Chlorooctane	115		"	106		108	70-130			
Surrogate: o-Terphenyl	55.3		"	53.2		104	70-130			

12600 W County Rd 91 Project Number: PP-22234
Midland TX, 79707 Project Manager: Elizabeth Stuart

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-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 may be biased low in the nC6-C12 TPH Range

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

	Drew	Darron			
Report Approved By:			Date:	8/25/2022	

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.

12600 W County Rd 91 Project Number: PP-22234
Midland TX, 79707 Project Manager: Elizabeth Stuart

Permian Basin Environmental Lab, L.P.

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



Analytical Report

Prepared for:

Elizabeth Stuart

Dean
12600 W County Rd 91

Midland, TX 79707

Project: PP-22234- West B4 Release

Project Number: PP-22234 Location: Eddy County, NM

Lab Order Number: 2H17010



Current Certification

Report Date: 08/25/22

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESW - 1 @ 1FT	2H17010-01	Soil	08/16/22 12:00	08-17-2022 12:53
ESW - 1 @ 2FT	2H17010-02	Soil	08/16/22 12:05	08-17-2022 12:53
NSW - 1 @ 1FT	2H17010-03	Soil	08/16/22 12:10	08-17-2022 12:53
NSW - 1 @ 1.5FT	2H17010-04	Soil	08/16/22 12:15	08-17-2022 12:53
WSW - 1 @ 6in.	2H17010-05	Soil	08/16/22 12:20	08-17-2022 12:53
WSW - 1 @ 1FT	2H17010-06	Soil	08/16/22 12:25	08-17-2022 12:53
SSW - 1 @ 6in	2H17010-07	Soil	08/16/22 12:30	08-17-2022 12:53
SSW - 1 @ 1.5FT	2H17010-08	Soil	08/16/22 12:35	08-17-2022 12:53
BH - 1 @ 2.5FT	2H17010-09	Soil	08/16/22 12:40	08-17-2022 12:53
BH - 2 @ 2FT	2H17010-10	Soil	08/16/22 12:45	08-17-2022 12:53
BH - 3 @ 3FT	2H17010-11	Soil	08/16/22 12:50	08-17-2022 12:53

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

ESW - 1 @ 1FT 2H17010-01 (Soil)

	1	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	1.13	0.104	mg/kg dry	100	P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
Toluene	23.6	0.104	mg/kg dry	100	P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
Ethylbenzene	27.2	0.104	mg/kg dry	100	P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
Xylene (p/m)	47.6	0.208	mg/kg dry	100	P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
Xylene (o)	21.0	0.104	mg/kg dry	100	P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		132 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	S-G
Surrogate: 1,4-Difluorobenzene	9	2.8 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:07	EPA 8021B	
General Chemistry Parameters by	EPA / Standa	ard Met	hods						
Chloride	378	1.04	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 11:31	EPA 300.0	
% Moisture	4.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	5890	521	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:31	TPH 8015M	
>C12-C28	24800	521	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:31	TPH 8015M	
>C28-C35	4610	521	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:31	TPH 8015M	
Surrogate: 1-Chlorooctane		130 %	70-130		P2H1808	08/18/22 14:30	08/20/22 10:31	TPH 8015M	
Surrogate: o-Terphenyl	ç	98.8 %	70-130		P2H1808	08/18/22 14:30	08/20/22 10:31	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	35300	521	mg/kg dry	20	[CALC]	08/18/22 14:30	08/20/22 10:31	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

ESW - 1 @ 2FT 2H17010-02 (Soil)

Analyte		Reporting	** **	Date:	D . 1	D 1	A I I	Method	Mada
Anaryte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental l	Lab, L.P.			
BTEX by 8021B									
Benzene	0.0747	0.0204	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
Toluene	1.11	0.0204	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
Ethylbenzene	5.14	0.0204	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
Xylene (p/m)	12.7	0.0408	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
Xylene (o)	6.76	0.0204	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		135 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	S-GO
Surrogate: 1,4-Difluorobenzene		95.4 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:29	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	ard Metl	nods						
Chloride	266	1.02	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 11:44	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6-	-C35 by EPA	Method	8015M						
C6-C12	2310	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:53	TPH 8015M	
>C12-C28	15300	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:53	TPH 8015M	
>C28-C35	2730	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 10:53	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P2H1808	08/18/22 14:30	08/20/22 10:53	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P2H1808	08/18/22 14:30	08/20/22 10:53	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	20300	510	mg/kg dry	20	[CALC]	08/18/22 14:30	08/20/22 10:53	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

NSW - 1 @ 1FT 2H17010-03 (Soil)

	T.	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Toluene	0.0341	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Ethylbenzene	0.0569	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Xylene (p/m)	0.278	0.00204	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Xylene (o)	0.0984	0.00102	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	8	1.5 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	8	3.6 %	80-120		P2H1811	08/18/22 16:11	08/18/22 20:50	EPA 8021B	
General Chemistry Parameters by	EPA / Standa	rd Metl	hods						
Chloride	7100	10.2	mg/kg dry	10	P2H1916	08/19/22 16:07	08/24/22 11:57	EPA 300.0	
% Moisture	2.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	1030	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:16	TPH 8015M	
>C12-C28	23600	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:16	TPH 8015M	
>C28-C35	4090	510	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:16	TPH 8015M	
Surrogate: 1-Chlorooctane	9	1.8 %	70-130		P2H1808	08/18/22 14:30	08/20/22 11:16	TPH 8015M	
Surrogate: o-Terphenyl	9	9.2 %	70-130		P2H1808	08/18/22 14:30	08/20/22 11:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28700	510	mg/kg dry	20	[CALC]	08/18/22 14:30	08/20/22 11:16	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

NSW - 1 @ 1.5FT 2H17010-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	0.00160	0.00101	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Toluene	0.0598	0.00101	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Ethylbenzene	0.117	0.00101	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Xylene (p/m)	0.746	0.00202	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Xylene (o)	0.325	0.00101	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	d	86.6 %	80-120		P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		P2H1811	08/18/22 16:11	08/18/22 21:11	EPA 8021B	
General Chemistry Parameters b	y EPA / Stand	ard Metl	hods						
Chloride	624	1.01	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 12:11	EPA 300.0	
% Moisture	1.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C	C6-C35 by EPA	Method	8015M						
C6-C12	1810	505	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:39	TPH 8015M	
>C12-C28	18400	505	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:39	TPH 8015M	
>C28-C35	3150	505	mg/kg dry	20	P2H1808	08/18/22 14:30	08/20/22 11:39	TPH 8015M	
Surrogate: 1-Chlorooctane	9	96.6 %	70-130		P2H1808	08/18/22 14:30	08/20/22 11:39	TPH 8015M	
Surrogate: o-Terphenyl	9	93.6 %	70-130		P2H1808	08/18/22 14:30	08/20/22 11:39	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	23400	505	mg/kg dry	20	[CALC]	08/18/22 14:30	08/20/22 11:39	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

WSW - 1 @ 6in. 2H17010-05 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	0.0845	0.0213	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:33	EPA 8021B	
Toluene	7.99	0.106	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	
Ethylbenzene	20.8	0.106	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	
Xylene (p/m)	45.9	0.213	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	
Xylene (o)	21.7	0.106	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.8 %	80-120		P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	S-GO
Surrogate: 4-Bromofluorobenzene		120 %	80-120		P2H1811	08/18/22 16:11	08/19/22 10:26	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	1340	5.32	mg/kg dry	5	P2H1916	08/19/22 16:07	08/25/22 02:38	EPA 300.0	
% Moisture	6.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	5590	532	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 14:41	TPH 8015M	
>C12-C28	31300	532	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 14:41	TPH 8015M	
>C28-C35	5040	532	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 14:41	TPH 8015M	
Surrogate: 1-Chlorooctane		127 %	70-130		P2H1809	08/18/22 16:04	08/20/22 14:41	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P2H1809	08/18/22 16:04	08/20/22 14:41	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	42000	532	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 14:41	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

WSW - 1 @ 1FT 2H17010-06 (Soil)

Analyte		Reporting					. 1 1	3.6.4.1	37.
Anaryte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	0.0554	0.0217	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
Toluene	4.12	0.0217	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
Ethylbenzene	8.12	0.0217	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
Xylene (p/m)	16.6	0.0435	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
Xylene (o)	8.66	0.0217	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		74.0 %	80-120		P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		107 %	80-120		P2H1811	08/18/22 16:11	08/18/22 21:54	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	2660	5.43	mg/kg dry	5	P2H1916	08/19/22 16:07	08/24/22 12:37	EPA 300.0	
% Moisture	8.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	5720	543	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:04	TPH 8015M	
>C12-C28	29200	543	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:04	TPH 8015M	
>C28-C35	4810	543	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:04	TPH 8015M	
Surrogate: 1-Chlorooctane		150 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:04	TPH 8015M	S-GC
Surrogate: o-Terphenyl		100 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:04	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	39700	543	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 15:04	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

SSW - 1 @ 6in 2H17010-07 (Soil)

A1		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.0206	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
Toluene	0.139	0.0206	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
Ethylbenzene	0.438	0.0206	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
Xylene (p/m)	2.40	0.0412	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
Xylene (o)	0.961	0.0206	mg/kg dry	20	P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	7	72.7 %	80-120		P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	S-G
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P2H1811	08/18/22 16:11	08/18/22 22:57	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	ard Met	hods						
Chloride	646	1.03	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 13:17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	18015M						
C6-C12	699	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:27	TPH 8015M	
>C12-C28	19500	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:27	TPH 8015M	
>C28-C35	4300	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:27	TPH 8015M	
Surrogate: 1-Chlorooctane	ç	00.4 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:27	TPH 8015M	
Surrogate: o-Terphenyl	ģ	93.6 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:27	TPH 8015M	
Total Petroleum Hydrocarbon	24500	515	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 15:27	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

SSW - 1 @ 1.5FT 2H17010-08 (Soil)

Analyta		Reporting						36.4.1	3.7
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	0.0145	0.00118	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:18	EPA 8021B	
Toluene	2.79	0.0235	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	
Ethylbenzene	4.68	0.0235	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	
Xylene (p/m)	10.1	0.0471	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	
Xylene (o)	5.15	0.0235	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.1 %	80-120		P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P2H1811	08/18/22 16:11	08/19/22 11:12	EPA 8021B	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	211	1.18	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 13:57	EPA 300.0	
% Moisture	15.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	2000	588	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:50	TPH 8015M	
>C12-C28	29600	588	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:50	TPH 8015M	
>C28-C35	5360	588	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 15:50	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:50	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P2H1809	08/18/22 16:04	08/20/22 15:50	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	36900	588	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 15:50	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

BH - 1 @ 2.5FT 2H17010-09 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Toluene	0.00475	0.00108	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Ethylbenzene	0.0387	0.00108	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Xylene (p/m)	0.0677	0.00215	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Xylene (o)	0.0332	0.00108	mg/kg dry	1	P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.8 %	80-120		P2H1811	08/18/22 16:11	08/18/22 23:39	EPA 8021B	
General Chemistry Parameters by	y EPA / Stand	ard Met	hods						
Chloride	587	1.08	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 14:10	EPA 300.0	
% Moisture	7.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons Co	6-C35 by EPA	Method	8015M						
C6-C12	544	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:12	TPH 8015M	
>C12-C28	7140	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:12	TPH 8015M	
>C28-C35	2100	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:12	TPH 8015M	
Surrogate: 1-Chlorooctane		88.2 %	70-130		P2H1809	08/18/22 16:04	08/20/22 16:12	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P2H1809	08/18/22 16:04	08/20/22 16:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	9780	538	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 16:12	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

BH - 2 @ 2FT 2H17010-10 (Soil)

A 1.		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00103	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Toluene	ND (0.00103	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Ethylbenzene	0.00191	0.00103	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Xylene (p/m)	ND (0.00206	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Xylene (o)	0.00195	0.00103	mg/kg dry	1	P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	8	6.7 %	80-120		P2H1811	08/18/22 16:11	08/19/22 00:00	EPA 8021B	
General Chemistry Parameters by	y EPA / Standa	ard Met	hods						
Chloride	196	1.03	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 14:24	EPA 300.0	
% Moisture	3.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons Co	6-C35 by EPA	Method	18015M						
C6-C12	ND	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:35	TPH 8015M	
>C12-C28	1770	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:35	TPH 8015M	
>C28-C35	713	515	mg/kg dry	20	P2H1809	08/18/22 16:04	08/20/22 16:35	TPH 8015M	
Surrogate: 1-Chlorooctane	9	1.6 %	70-130	·	P2H1809	08/18/22 16:04	08/20/22 16:35	TPH 8015M	
Surrogate: o-Terphenyl	9	9.2 %	70-130		P2H1809	08/18/22 16:04	08/20/22 16:35	TPH 8015M	
Total Petroleum Hydrocarbon	2490	515	mg/kg dry	20	[CALC]	08/18/22 16:04	08/20/22 16:35	calc	
C6-C35									

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

BH - 3 @ 3FT 2H17010-11 (Soil)

Analyte		Reporting	TT 11	Date:	D . 1	D 1	A J	M-4h- d	NI-4
Anaryte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	2.98	0.0215	mg/kg dry	20	P2H1811	08/18/22 16:11	08/19/22 00:21	EPA 8021B	
Toluene	42.9	0.108	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	
Ethylbenzene	37.1	0.108	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	
Xylene (p/m)	82.0	0.215	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	
Xylene (o)	37.5	0.108	mg/kg dry	100	P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		74.6 %	80-120		P2H1811	08/18/22 16:11	08/19/22 10:47	EPA 8021B	S-GC
General Chemistry Parameters by I	EPA / Stand	lard Metl	hods						
Chloride	545	1.08	mg/kg dry	1	P2H1916	08/19/22 16:07	08/24/22 14:37	EPA 300.0	
% Moisture	7.0	0.1	%	1	P2H1802	08/18/22 09:43	08/18/22 09:47	ASTM D2216	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	6230	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/21/22 15:23	TPH 8015M	
>C12-C28	15000	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/21/22 15:23	TPH 8015M	
>C28-C35	3160	538	mg/kg dry	20	P2H1809	08/18/22 16:04	08/21/22 15:23	TPH 8015M	
Surrogate: 1-Chlorooctane		176 %	70-130		P2H1809	08/18/22 16:04	08/21/22 15:23	TPH 8015M	S-GC
Surrogate: o-Terphenyl		109 %	70-130		P2H1809	08/18/22 16:04	08/21/22 15:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	24400	538	mg/kg dry	20	[CALC]	08/18/22 16:04	08/21/22 15:23	calc	

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2H1811 - *** DEFAULT PREP ***										
Blank (P2H1811-BLK1)				Prepared &	z Analyzed:	08/18/22				
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.0986		"	0.120		82.2	80-120			
LCS (P2H1811-BS1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.111	0.00100	mg/kg	0.100	-	111	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
LCS Dup (P2H1811-BSD1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.0982	0.00100	mg/kg	0.100		98.2	80-120	12.1	20	
Toluene	0.0911	0.00100	"	0.100		91.1	80-120	13.5	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120	11.9	20	
Xylene (p/m)	0.180	0.00200	"	0.200		90.0	80-120	12.3	20	
Xylene (o)	0.0885	0.00100	"	0.100		88.5	80-120	14.3	20	
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.0974		"	0.120		81.2	80-120			
Calibration Blank (P2H1811-CCB1)				Prepared &	z Analyzed:	08/18/22				
Benzene	0.160		ug/kg							
Toluene	0.280		"							
Ethylbenzene	0.330		"							
Xylene (p/m)	0.410		"							
Xylene (o)	0.240		"							
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.0986		"	0.120		82.2	80-120			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1811 - *** DEFAULT PREP ***										
Calibration Blank (P2H1811-CCB2)				Prepared &	Analyzed:	08/18/22				
Benzene	0.180		ug/kg							
Toluene	0.990		"							
Ethylbenzene	0.380		"							
Xylene (p/m)	0.800		"							
Xylene (o)	0.370		"							
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
Surrogate: 1,4-Difluorobenzene	0.0976		"	0.120		81.4	80-120			
Calibration Check (P2H1811-CCV1)				Prepared &	Analyzed:	08/18/22				
Benzene	0.113	0.00100	mg/kg	0.102		111	80-120			
Toluene	0.105	0.00100	"	0.102		103	80-120			
Ethylbenzene	0.107	0.00100	"	0.102		105	80-120			
Xylene (p/m)	0.203	0.00200	"	0.204		99.5	80-120			
Xylene (o)	0.102	0.00100	"	0.102		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		118	75-125			
Calibration Check (P2H1811-CCV2)				Prepared &	Analyzed:	08/18/22				
Benzene	0.112	0.00100	mg/kg	0.102		110	80-120			
Toluene	0.106	0.00100	"	0.102		104	80-120			
Ethylbenzene	0.103	0.00100	"	0.102		101	80-120			
Xylene (p/m)	0.205	0.00200	"	0.204		101	80-120			
Xylene (o)	0.102	0.00100	"	0.102		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.147		"	0.120		123	75-125			
Calibration Check (P2H1811-CCV3)				Prepared: (08/18/22 A	nalyzed: 08	/19/22			
Benzene	0.102	0.00100	mg/kg	0.102		100	80-120			
Toluene	0.0927	0.00100	"	0.102		90.9	80-120			
Ethylbenzene	0.0919	0.00100	"	0.102		90.1	80-120			
Xylene (p/m)	0.174	0.00200	"	0.204		85.2	80-120			
Xylene (o)	0.0922	0.00100	"	0.102		90.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.0987		"	0.120		82.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.160		"	0.120		133	75-125			S-

Permian Basin Environmental Lab, L.P.

S-GC

Dean Project: PP-22234- West B4 Release

0.118

0.192

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

	D 1	Reporting	** **	Spike	Source	WREG	%REC	DDD	RPD	37.4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2H1811 - *** DEFAULT PREP ***										
Matrix Spike (P2H1811-MS1)	Sou	rce: 2H18001	-01	Prepared: (08/18/22 A	nalyzed: 08	/19/22			
Benzene	0.0953	0.00116	mg/kg dry	0.116	ND	82.0	80-120			
Toluene	0.0866	0.00116	"	0.116	ND	74.5	80-120			QM-05
Ethylbenzene	0.0939	0.00116	"	0.116	ND	80.8	80-120			
Xylene (p/m)	0.175	0.00233	"	0.233	ND	75.0	80-120			QM-05
Xylene (o)	0.0829	0.00116	"	0.116	ND	71.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.195		"	0.140		140	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.119		"	0.140		85.1	80-120			
Matrix Spike Dup (P2H1811-MSD1)	Sou	rce: 2H18001	-01	Prepared: (08/18/22 A	nalyzed: 08	/19/22			
Benzene	0.100	0.00116	mg/kg dry	0.116	ND	86.4	80-120	5.25	20	
Toluene	0.0915	0.00116	"	0.116	ND	78.7	80-120	5.50	20	QM-05
Ethylbenzene	0.100	0.00116	"	0.116	ND	86.1	80-120	6.36	20	
Xylene (p/m)	0.177	0.00233	"	0.233	ND	75.9	80-120	1.18	20	QM-05
Xylene (o)	0.0892	0.00116	"	0.116	ND	76.7	80-120	7.34	20	OM-05

0.140

0.140

84.3

138

80-120

80-120

Surrogate: 1,4-Difluorobenzene

Surrogate: 4-Bromofluorobenzene

12600 W County Rd 91Project Number: PP-22234Midland TX, 79707Project Manager: Elizabeth Stuart

Result	Limit	Units	Level	Result					Notes
					%REC	Limits	RPD	Limit	110103
			Prepared &	Analyzed:	08/18/22				
ND	0.1	%							
			Prepared &	Analyzed:	08/18/22				
ND	0.1	%	-	-					
Sourc	e: 2H16015-	01	Prepared &	Analyzed:	08/18/22				
9.0	0.1	%	•	9.0			0.00	20	
Sourc	e: 2H16019-	01	Prepared &	Analyzed:	08/18/22				
8.0	0.1	%	•	7.0			13.3	20	
Sourc	e: 2H16023-	04	Prepared &	Analyzed:	08/18/22				
ND	0.1	%		ND				20	
Sourc	e: 2H16026-	01	Prepared &	Analyzed:	08/18/22				
5.0	0.1	%		5.0			0.00	20	
Sourc	e: 2H17010-	09	Prepared &	Analyzed:	08/18/22				
7.0	0.1	%		7.0			0.00	20	
Sourc	e: 2H17012-	03	Prepared &	Analyzed:	08/18/22				
7.0	0.1	%	1	7.0	· · · · · · · · · · · · · · · · · · ·		0.00	20	
Sourc	e: 2H17016-	02	Prepared &	Analyzed:	08/18/22				
6.0	0.1	%		6.0			0.00	20	
Source	e· 2H17017-	03	Prepared &	Analyzed:	08/18/22				
6.0	0.1	%	1 repared &	5.0	00/10/22		18.2	20	
	ND Source Source Source Source Source Source Co. Source Source	ND 0.1 Source: 2H16015- 9.0 0.1 Source: 2H16019- 8.0 0.1 Source: 2H16023- ND 0.1 Source: 2H16026- 5.0 0.1 Source: 2H17010- 7.0 0.1 Source: 2H17012- 7.0 0.1 Source: 2H17016- 6.0 0.1 Source: 2H17017-	ND 0.1 % Source: 2H16015-01 9.0 0.1 % Source: 2H16019-01 8.0 0.1 % Source: 2H16023-04 ND 0.1 % Source: 2H16026-01 5.0 0.1 % Source: 2H17010-09 7.0 0.1 % Source: 2H17012-03 7.0 0.1 % Source: 2H17016-02 6.0 0.1 % Source: 2H17017-03	ND 0.1 % Prepared &	ND 0.1 % Prepared & Analyzed: ND 0.1 % Source: 2H16015-01 Prepared & Analyzed: 9.0 0.1 % 9.0 Source: 2H16019-01 Prepared & Analyzed: 8.0 0.1 % 7.0 Source: 2H16023-04 Prepared & Analyzed: ND ND ND Source: 2H16026-01 Prepared & Analyzed: 5.0 0.1 % 5.0 Source: 2H17010-09 Prepared & Analyzed: 7.0 0.1 % 7.0 Source: 2H17012-03 Prepared & Analyzed: 6.0 0.1 % 6.0 Source: 2H17017-03 Prepared & Analyzed:	Prepared & Analyzed: 08/18/22	ND 0.1 % Prepared & Analyzed: 08/18/22 ND 0.1 % Source: 2H16015-01 Prepared & Analyzed: 08/18/22 9.0 0.1 % 9.0 Source: 2H16019-01 Prepared & Analyzed: 08/18/22 8.0 0.1 % 7.0 Source: 2H16023-04 Prepared & Analyzed: 08/18/22 ND 0.1 % ND Source: 2H16026-01 Prepared & Analyzed: 08/18/22 5.0 0.1 % 5.0 Source: 2H17010-09 Prepared & Analyzed: 08/18/22 7.0 0.1 % 7.0 Source: 2H17012-03 Prepared & Analyzed: 08/18/22 7.0 0.1 % 7.0 Source: 2H17016-02 Prepared & Analyzed: 08/18/22 6.0 0.1 % 6.0 Source: 2H17017-03 Prepared & Analyzed: 08/18/22	ND	ND 0.1 % Prepared & Analyzed: 08/18/22

12600 W County Rd 91 Project Number: PP-22234
Midland TX, 79707 Project Manager: Elizabeth Stuart

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1916 - *** DEFAULT PREP ***										
Blank (P2H1916-BLK1)				Prepared &	Analyzed:	08/24/22				
Chloride	ND	1.00	mg/kg							
LCS (P2H1916-BS1)				Prepared &	Analyzed:	08/24/22				
Chloride	40.6		mg/kg	40.0		102	90-110			
LCS Dup (P2H1916-BSD1)				Prepared &	Analyzed:	08/24/22				
Chloride	42.1		mg/kg	40.0		105	90-110	3.61	10	
Calibration Blank (P2H1916-CCB1)				Prepared &	Analyzed:	08/24/22				
Chloride	0.0310		mg/kg							
Calibration Blank (P2H1916-CCB2)				Prepared &	Analyzed:	08/24/22				
Chloride	0.0960		mg/kg							
Calibration Check (P2H1916-CCV1)				Prepared &	Analyzed:	08/24/22				
Chloride	20.1		mg/kg	20.0		101	90-110			
Calibration Check (P2H1916-CCV2)				Prepared &	Analyzed:	08/24/22				
Chloride	18.6		mg/kg	20.0	-	92.9	90-110			
Calibration Check (P2H1916-CCV3)				Prepared &	Analyzed:	08/24/22				
Chloride	20.4		mg/kg	20.0	-	102	90-110			
Matrix Spike (P2H1916-MS1)	Sou	rce: 2H16025	5-01	Prepared &	Analyzed:	08/24/22				
Chloride	2610	10.9	mg/kg dry	543	1990	115	80-120			
Matrix Spike (P2H1916-MS2)	Sou	rce: 2H17010	-07	Prepared &	Analyzed:	08/24/22				
Chloride	853		mg/kg dry	258	646	80.2	80-120			
Chioriac	033	1.03	mg/kg uly	230	040	00.2	00-120			

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2H1916 - *** DEFAULT PREP ***									
Matrix Spike Dup (P2H1916-MSD1)	Source	: 2H16025-01	Prepared &	k Analyzed:	08/24/22				
Chloride	2570	10.9 mg/kg dry	543	1990	107	80-120	1.51	20	
Matrix Spike Dup (P2H1916-MSD2)	Source	e: 2H17010-07	Prepared &	k Analyzed:	08/24/22				
Chloride	846	1.03 mg/kg dry	258	646	77.6	80-120	0.791	20	QM-05

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P2H1808 - TX 1005										
Blank (P2H1808-BLK1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			
LCS (P2H1808-BS1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	971	25.0	mg/kg	1000		97.1	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			
LCS Dup (P2H1808-BSD1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	1010	25.0	mg/kg	1000		101	75-125	3.44	20	
>C12-C28	1030	25.0	"	1000		103	75-125	2.27	20	
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			
Calibration Check (P2H1808-CCV1)				Prepared: (08/18/22 Aı	nalyzed: 08	/22/22			
C6-C12	436	25.0	mg/kg	500		87.1	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	83.9		"	100		83.9	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			
Calibration Check (P2H1808-CCV2)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	522	25.0	mg/kg	500		104	85-115			
>C12-C28	549	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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
	Result	Limit	Omts	Level	Result	70KEC	Limits	KI D	Lillit	rvotes
Batch P2H1808 - TX 1005				D 1.0	20/10/22	1 1 00	100100			
Duplicate (P2H1808-DUP1)		rce: 2H17010		Prepared: (08/18/22 A1	nalyzed: 08	/20/22	0.615	20	
C6-C12	1800	505	mg/kg dry		1810			0.615	20	
>C12-C28	17900	505			18400			2.84	20	
Surrogate: 1-Chlorooctane	96.4		"	101		95.4	70-130			
Surrogate: o-Terphenyl	50.9		"	50.5		101	70-130			
Batch P2H1809 - TX 1005										
Blank (P2H1809-BLK1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			
LCS (P2H1809-BS1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	1020	25.0	mg/kg	1000		102	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			
LCS Dup (P2H1809-BSD1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	983	25.0	mg/kg	1000		98.3	75-125	3.56	20	
>C12-C28	1000	25.0	"	1000		100	75-125	3.08	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			
Calibration Check (P2H1809-CCV1)				Prepared: (08/18/22 Aı	nalyzed: 08	/20/22			
C6-C12	532	25.0	mg/kg	500		106	85-115	<u> </u>		
>C12-C28	571	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130			

Permian Basin Environmental Lab, L.P.

12600 W County Rd 91Project Number:PP-22234Midland TX, 79707Project Manager:Elizabeth Stuart

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 P2H1809 - TX 1005										
Calibration Check (P2H1809-CCV2)				Prepared: (08/18/22 A	nalyzed: 08	/21/22			
C6-C12	550	25.0	mg/kg	500		110	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			
Calibration Check (P2H1809-CCV3)				Prepared: (08/18/22 A	nalyzed: 08	/22/22			
C6-C12	445	25.0	mg/kg	500		89.0	85-115			
>C12-C28	524	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	91.1		"	100		91.1	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			
Duplicate (P2H1809-DUP1)	Sou	rce: 2H17010	-05	Prepared: (08/18/22 A	nalyzed: 08	/22/22			
C6-C12	4930	532	mg/kg dry		5590			12.7	20	
>C12-C28	29300	532	"		31300			6.69	20	
Surrogate: 1-Chlorooctane	115		"	106		108	70-130			
Surrogate: o-Terphenyl	55.3		"	53.2		104	70-130			

12600 W County Rd 91 Project Number: PP-22234 Midland TX, 79707 Project Manager: Elizabeth Stuart

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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.

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

Matrix Spike Dup Duplicate

MS

	1 Drew	Davior		
Report Approved By:			Date:	8/25/2022

0 aR

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



Analytical Report

Prepared for:

Joel Lawry
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: West B4 Release Project Number: SRS#2022-053 Location: 32.85094,-103.85942

Lab Order Number: 3B17014



Current Certification

Report Date: 02/23/23

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WHB @ Surface	3B17014-01	Soil	02/15/23 12:00	02-17-2023 12:06
WHB @ 1.5'	3B17014-02	Soil	02/15/23 12:20	02-17-2023 12:06
WH @ 2'	3B17014-03	Soil	02/15/23 12:40	02-17-2023 12:06
SHB @ Surface	3B17014-04	Soil	02/15/23 13:00	02-17-2023 12:06
SHB @ 1.5'	3B17014-05	Soil	02/15/23 13:20	02-17-2023 12:06

13000 West County Road 100

Project: West B4 Release Project Number: SRS#2022-053

Odessa TX, 79765 Project Manager: Joel Lawry

WHB @ Surface 3B17014-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes					
	Permian Basin Environmental Lab, L.P.													
General Chemistry Pa	arameters by EPA / Stand	ard Met	hods											
Chloride	ND	1.05	mg/kg dry	1	P3B2103	02/21/23 09:30	02/21/23 16:51	EPA 300.0						
% Moisture	5.0	0.1	%	1	P3B2005	02/20/23 09:12	02/20/23 09:48	ASTM D2216						

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053

Project Manager: Joel Lawry

WHB @ 1.5' 3B17014-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P3B2103	02/21/23 09:30	02/21/23 17:06	EPA 300.0
% Moisture	6.0	0.1	%	1	P3B2005	02/20/23 09:12	02/20/23 09:48	ASTM D2216

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release Project Number: SRS#2022-053

> WH @ 2' 3B17014-03 (Soil)

Project Manager: Joel Lawry

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	153	1.05	mg/kg dry	1	P3B2202	02/22/23 09:01	02/22/23 15:29	EPA 300.0
% Moisture	5.0	0.1	%	1	P3B2005	02/20/23 09:12	02/20/23 09:48	ASTM D2216

General Chemistry Parameters by EPA / Standard Methods

7.0

0.1

13000 West County Road 100 Odessa TX, 79765

% Moisture

Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

SHB @ Surface 3B17014-04 (Soil)

Analyte		Reporting	T.T	Diletien	Datal	D 1	Analyzed	Method	Notes
Timiye	Result	Limit	Units	Dilution	Batch	Prepared	Anaryzeu	Method	Notes
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
Total Petroleum Hydrocarbons C6-0	C35 by EPA	Method	1 8015M						
C6-C12	ND	26.9	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:13	TPH 8015M	
>C12-C28	34.6	26.9	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:13	TPH 8015M	
>C28-C35	27.7	26.9	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:13	TPH 8015M	
Surrogate: 1-Chlorooctane	8	37.1 %	70-130		P3B1804	02/18/23 09:30	02/20/23 13:13	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P3B1804	02/18/23 09:30	02/20/23 13:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	62.3	26.9	mg/kg dry	1	[CALC]	02/18/23 09:30	02/20/23 13:13	calc	

P3B2005

02/20/23 09:12

02/20/23 09:48

ASTM D2216

13000 West County Road 100 Odessa TX, 79765

Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

SHB @ 1.5' 3B17014-05 (Soil)

Analyte	I Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	sin Envi	ronmental L	ab, L.P.			
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	27.2	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:37	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:37	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 13:37	TPH 8015M	
Surrogate: 1-Chlorooctane	8	2.4 %	70-130		P3B1804	02/18/23 09:30	02/20/23 13:37	TPH 8015M	
Surrogate: o-Terphenyl	9	8.0 %	70-130		P3B1804	02/18/23 09:30	02/20/23 13:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	02/18/23 09:30	02/20/23 13:37	calc	
General Chemistry Parameters by	EPA / Standa	ırd Metl	hods						
% Moisture	8.0	0.1	%	1	P3B2005	02/20/23 09:12	02/20/23 09:48	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3B1804 - TX 1005										
Blank (P3B1804-BLK1)				Prepared: ()2/18/23 Aı	nalyzed: 02	/20/23			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	86.1		"	100		86.1	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			
LCS (P3B1804-BS1)				Prepared: ()2/18/23 Aı	nalyzed: 02	/20/23			
C6-C12	854	25.0	mg/kg	1000		85.4	75-125			
>C12-C28	983	25.0	"	1000		98.3	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	61.8		"	50.0		124	70-130			
LCS Dup (P3B1804-BSD1)				Prepared: ()2/18/23 Aı	nalyzed: 02	/20/23			
C6-C12	846	25.0	mg/kg	1000		84.6	75-125	0.883	20	
>C12-C28	974	25.0	"	1000		97.4	75-125	0.951	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	61.0		"	50.0		122	70-130			
Calibration Check (P3B1804-CCV1)				Prepared: ()2/18/23 Aı	nalyzed: 02	/20/23			
C6-C12	465	25.0	mg/kg	500		93.1	85-115			
>C12-C28	466	25.0	"	500		93.3	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.3	70-130			
Calibration Check (P3B1804-CCV2)				Prepared: ()2/18/23 Aı	nalyzed: 02	/20/23			
C6-C12	445	25.0	mg/kg	500		89.0	85-115			
>C12-C28	448	25.0	"	500		89.7	85-115			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.5	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.

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: SRS#2022-053 Project Manager: Joel Lawry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3B1804 - TX 1005										
Calibration Check (P3B1804-CCV3)				Prepared: (02/18/23 A	nalyzed: 02	2/20/23			
C6-C12	444	25.0	mg/kg	500		88.8	85-115			
>C12-C28	456	25.0	"	500		91.2	85-115			
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.6	70-130			
Matrix Spike (P3B1804-MS1)	Sour	rce: 3B14016	-21	Prepared: (02/18/23 A	nalyzed: 02	2/20/23			
C6-C12	696	25.5	mg/kg dry	1020	ND	68.2	75-125			QM-05
>C12-C28	819	25.5	"	1020	ND	80.3	75-125			
Surrogate: 1-Chlorooctane	91.4		"	102		89.6	70-130			
Surrogate: o-Terphenyl	45.2		"	51.0		88.6	70-130			
Matrix Spike Dup (P3B1804-MSD1)	Sou	rce: 3B14016	-21	Prepared: ()2/18/23 A	nalyzed: 02	2/20/23			
C6-C12	696	25.5	mg/kg dry	1020	ND	68.2	75-125	0.0117	20	QM-05
>C12-C28	820	25.5	"	1020	ND	80.3	75-125	0.0436	20	
Surrogate: 1-Chlorooctane	90.9		"	102		89.1	70-130			
Surrogate: o-Terphenyl	46.4		"	51.0		90.9	70-130			

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053

Project Manager: Joel Lawry

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3B2005 - *** DEFAULT PREP ***										
Blank (P3B2005-BLK1)				Prepared &	: Analyzed:	02/20/23				
% Moisture	ND	0.1	%							
Duplicate (P3B2005-DUP1)	Sour	ce: 3B17005-	Prepared &	: Analyzed:	02/20/23					
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3B2005-DUP2)	Sour	ce: 3B17005-	18	Prepared &	: Analyzed:	02/20/23				
% Moisture	5.0	0.1	%	*	5.0			0.00	20	
Duplicate (P3B2005-DUP3)	Sour	ce: 3B17008-	01	Prepared &	: Analyzed:	02/20/23				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3B2005-DUP4)	Sour	ce: 3B17010-	05	Prepared &	: Analyzed:	02/20/23				
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P3B2005-DUP5)	Sour	ce: 3B17012-	03	Prepared &	: Analyzed:	02/20/23				
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P3B2005-DUP6)	Sour	ce: 3B17014-	05	Prepared &	: Analyzed:	02/20/23				
% Moisture	8.0	0.1	%	•	8.0			0.00	20	
Batch P3B2103 - *** DEFAULT PREP ***										
Blank (P3B2103-BLK1)				Prepared &	: Analyzed:	02/21/23				
Chloride	ND	1.00	mg/kg	1	<u> </u>					
LCS (P3B2103-BS1)				Prepared &	: Analyzed:	02/21/23				
Chloride	20.5		mg/kg	20.0		103	90-110			

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: SRS#2022-053 Project Manager: Joel Lawry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	result	Emit	Cinto	20101	resur	,,,,,,	Ziiiito		Ziiiit	1.0305
Batch P3B2103 - *** DEFAULT PREP ***										
LCS Dup (P3B2103-BSD1)				Prepared &	Analyzed:	02/21/23				
Chloride	21.0		mg/kg	20.0		105	90-110	2.47	10	
Calibration Blank (P3B2103-CCB1)				Prepared &	Analyzed:	02/21/23				
Chloride	0.00		mg/kg							
Calibration Blank (P3B2103-CCB2)				Prepared &	Analyzed:	02/21/23				
Chloride	0.00	•	mg/kg						·	
Calibration Check (P3B2103-CCV1)				Prepared &	Analyzed:	02/21/23				
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P3B2103-CCV2)				Prepared &	Analyzed:	02/21/23				
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P3B2103-CCV3)				Prepared &	Analyzed:	02/21/23				
Chloride	21.2		mg/kg	20.0		106	90-110			
Matrix Spike (P3B2103-MS1)	Sour	ce: 3B17009-	01	Prepared &	Analyzed:	02/21/23				
Chloride	13.0		mg/kg	10000	43.9	NR	80-120			QM-05
Matrix Spike (P3B2103-MS2)	Sour	ce: 3B17010-	09	Prepared &	Analyzed:	02/21/23				
Chloride	17.4		mg/kg	10000	189	NR	80-120			QM-05
Matrix Spike Dup (P3B2103-MSD1)	Sour	ce: 3B17009-	01	Prepared &	Analyzed:	02/21/23				
Chloride	11.8		mg/kg	10000	43.9	NR	80-120	9.20	20	QM-05
Matrix Spike Dup (P3B2103-MSD2)	Sour	ce: 3B17010-	09	Prepared &	Analyzed:	02/21/23				
Chloride	20.4		mg/kg	10000	189	NR	80-120	16.2	20	QM-05

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053

Project Manager: Joel Lawry

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3B2202 - *** DEFAULT PREP ***										
Blank (P3B2202-BLK1)				Prepared &	Analyzed:	02/22/23				
Chloride	ND	1.00	mg/kg							
LCS (P3B2202-BS1)				Prepared &	Analyzed:	02/22/23				
Chloride	20.8		mg/kg	20.0		104	90-110			
LCS Dup (P3B2202-BSD1)				Prepared &	Analyzed:	02/22/23				
Chloride	21.1		mg/kg	20.0		106	90-110	1.37	10	
Calibration Blank (P3B2202-CCB1)				Prepared &	Analyzed:	02/22/23				
Chloride	-0.185		mg/kg							
Calibration Blank (P3B2202-CCB2)				Prepared &	Analyzed:	02/22/23				
Chloride	0.00		mg/kg							
Calibration Check (P3B2202-CCV1)				Prepared &	Analyzed:	02/22/23				
Chloride	20.3		mg/kg	20.0		101	90-110			
Calibration Check (P3B2202-CCV2)				Prepared &	Analyzed:	02/22/23				
Chloride	21.3		mg/kg	20.0	-	107	90-110			
Calibration Check (P3B2202-CCV3)				Prepared &	: Analyzed:	02/22/23				
Chloride	21.1		mg/kg	20.0	-	106	90-110			
Matrix Spike (P3B2202-MS1)	Sou	rce: 3B21001	-01	Prepared &	Analyzed:	02/22/23				
Chloride	16000	59.5	mg/kg dry	2980	16900	NR	80-120			QM-05
Matrix Spike (P3B2202-MS2)	Source: 3B21001-11		Prepared & Analyzed: 02/22/23							
Chloride	4520	28.4	mg/kg dry	1420	2520	141	80-120			QM-05

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053

Project Manager: Joel Lawry

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B2202 - *** DEFAULT PREP ***									
Matrix Spike Dup (P3B2202-MSD1)	Source	: 3B21001-01	Prepared &	k Analyzed:	02/22/23				
Chloride	16200	59.5 mg/kg dry	2980	16900	NR	80-120	1.40	20	QM-05
Matrix Spike Dup (P3B2202-MSD2)	Source	: 3B21001-11	Prepared &	k Analyzed:	02/22/23				
Chloride	4640	28.4 mg/kg dry	1420	2520	149	80-120	2.54	20	QM-05

13000 West County Road 100

Odessa TX, 79765

Project Number: SRS#2022-053
Project Manager: Joel Lawry

Notes and Definitions

ROI Received on Ice

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.

NPBEL Ct Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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

	Drew	Darron		
Report Approved By:			Date:	2/23/2023

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.

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.

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100

13000 West County Road 100 Project Number: SRS#2022-053
Odessa TX, 79765 Project Manager: Joel Lawry

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.

Project: West B4 Release

Released to Imaging: 3/18/2024 1:13:00 PM

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



Analytical Report

Prepared for:

Joel Lawry
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: West B4 Release Project Number: SRS#2022-053 Location: 32.85094,-103.85942

Lab Order Number: 3B01001



Current Certification

Report Date: 02/07/23

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EH @ Surface	3B01001-01	Soil	01/26/23 00:00	01-31-2023 12:55
EH @ 1.5'	3B01001-02	Soil	01/26/23 00:00	01-31-2023 12:55
WH @ Surface	3B01001-03	Soil	01/26/23 00:00	01-31-2023 12:55
WH @ 1.5'	3B01001-04	Soil	01/26/23 00:00	01-31-2023 12:55
NH @ Surface	3B01001-05	Soil	01/26/23 00:00	01-31-2023 12:55
NH @ 1.5'	3B01001-06	Soil	01/26/23 00:00	01-31-2023 12:55
SH @ Surface	3B01001-07	Soil	01/26/23 00:00	01-31-2023 12:55
SH @ 1.5'	3B01001-08	Soil	01/26/23 00:00	01-31-2023 12:55

13000 West County Road 100

Odessa TX, 79765

Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

EH @ Surface 3B01001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.6 %	80-120		P3B0103	02/01/23 11:56	02/01/23 21:35	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	A Method	8015M						
C6-C12	ND	26.6	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:27	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:27	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:27	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P3B0306	02/03/23 10:00	02/06/23 04:27	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P3B0306	02/03/23 10:00	02/06/23 04:27	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 04:27	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	26.7	1.06	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 19:24	EPA 300.0	
% Moisture	6.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

EH @ 1.5' 3B01001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	80-120		P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		81.8 %	80-120		P3B0103	02/01/23 11:56	02/01/23 21:56	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	1 8015M						
C6-C12	ND	27.8	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:49	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:49	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 04:49	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P3B0306	02/03/23 10:00	02/06/23 04:49	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P3B0306	02/03/23 10:00	02/06/23 04:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 04:49	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	100	1.11	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 19:37	EPA 300.0	
% Moisture	10.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

WH @ Surface 3B01001-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.2 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:17	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP.	A Method	8015M						
C6-C12	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:10	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:10	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:10	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P3B0306	02/03/23 10:00	02/06/23 05:10	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P3B0306	02/03/23 10:00	02/06/23 05:10	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 05:10	calc	
General Chemistry Parameters by	EPA / Stand	dard Metl	hods						
Chloride	282	1.12	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 19:51	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765

Project Number: SRS#2022-053
Project Manager: Joel Lawry

WH @ 1.5' 3B01001-04 (Soil)

Project: West B4 Release

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.0 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:38	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP	A Method	8015M						
C6-C12	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:32	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:32	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 05:32	TPH 8015M	
Surrogate: 1-Chlorooctane		94.4 %	70-130		P3B0306	02/03/23 10:00	02/06/23 05:32	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P3B0306	02/03/23 10:00	02/06/23 05:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 05:32	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	1040	1.12	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 20:31	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

NH @ Surface 3B01001-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.2 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		P3B0103	02/01/23 11:56	02/01/23 22:59	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EP	A Method	8015M						
C6-C12	ND	28.4	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:37	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:37	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:37	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P3B0306	02/03/23 10:00	02/06/23 06:37	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P3B0306	02/03/23 10:00	02/06/23 06:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 06:37	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	13.3	1.14	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 20:44	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

NH @ 1.5' 3B01001-06 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	80-120		P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.9 %	80-120		P3B0103	02/01/23 11:56	02/01/23 23:21	EPA 8021B	
Total Petroleum Hydrocarbons C6-	C35 by EPA	Method	8015M						
C6-C12	ND	27.5	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:59	TPH 8015M	
>C12-C28	49.1	27.5	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:59	TPH 8015M	
>C28-C35	36.8	27.5	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 06:59	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-130		P3B0306	02/03/23 10:00	02/06/23 06:59	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P3B0306	02/03/23 10:00	02/06/23 06:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	85.9	27.5	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 06:59	calc	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	28.6	1.10	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 20:57	EPA 300.0	
% Moisture	9.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

SH @ Surface 3B01001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.9 %	80-120		P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P3B0103	02/01/23 11:56	02/01/23 23:42	EPA 8021B	
Total Petroleum Hydrocarbons C6-	C35 by EPA	A Method	8015M						
C6-C12	ND	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:20	TPH 8015M	
>C12-C28	196	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:20	TPH 8015M	
>C28-C35	92.5	28.1	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P3B0306	02/03/23 10:00	02/06/23 07:20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P3B0306	02/03/23 10:00	02/06/23 07:20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	288	28.1	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 07:20	calc	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	470	1.12	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 21:37	EPA 300.0	
% Moisture	11.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release
Project Number: SRS#2022-053
Project Manager: Joel Lawry

Project Manager: Joel Lawry

SH @ 1.5'
3B01001-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.7 %	80-120		P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	80-120		P3B0103	02/01/23 11:56	02/02/23 00:03	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	A Method	8015M						
C6-C12	ND	27.2	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:42	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:42	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3B0306	02/03/23 10:00	02/06/23 07:42	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P3B0306	02/03/23 10:00	02/06/23 07:42	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P3B0306	02/03/23 10:00	02/06/23 07:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	02/03/23 10:00	02/06/23 07:42	calc	
General Chemistry Parameters by	EPA / Stand	lard Metl	hods						
Chloride	342	1.09	mg/kg dry	1	P3B0311	02/03/23 15:46	02/03/23 21:50	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3B0201	02/02/23 11:00	02/02/23 11:02	ASTM D2216	

13000 West County Road 100

Project: West B4 Release Project Number: SRS#2022-053

Odessa TX, 79765 Project Manager: Joel Lawry

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0103 - *** DEFAULT PREP ***										
Blank (P3B0103-BLK1)				Prepared &	: Analyzed:	02/01/23				
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0975		"	0.120		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	80-120			
LCS (P3B0103-BS1)				Prepared &	: Analyzed:	02/01/23				
Benzene	0.0915	0.00100	mg/kg	0.100		91.5	80-120			
Toluene	0.0811	0.00100	"	0.100		81.1	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0965	0.00100	"	0.100		96.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	80-120			
LCS Dup (P3B0103-BSD1)				Prepared &	: Analyzed:	02/01/23				
Benzene	0.100	0.00100	mg/kg	0.100		100	80-120	9.17	20	
Toluene	0.0893	0.00100	"	0.100		89.3	80-120	9.67	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	6.97	20	
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120	5.22	20	
Xylene (o)	0.106	0.00100	"	0.100		106	80-120	8.97	20	
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.120		118	80-120			
Calibration Blank (P3B0103-CCB1)				Prepared &	: Analyzed:	02/01/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0965		"	0.120		80.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	80-120			

Permian Basin Environmental Lab, L.P.

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

13000 West County Road 100

Project Number: SRS#2022-053 Odessa TX, 79765

Project Manager: Joel Lawry

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

Project: West B4 Release

Prepared & Analyzed: 02/01/23 Serizenee 0.00 ug/kg Toluene 0.00 ug/kg Serizenee 0.000 ug/kg Serizenee 0.000 ug/kg Serizenee 0.000 ug/kg U		D 1:	Reporting	TT *-	Spike	Source	0/PEC	%REC	DDD	RPD	NI ·
Prepared & Analyzed: 02/01/23 Serizenee 0.00 ug/kg Toluene 0.00 ug/kg Serizenee 0.000 ug/kg Serizenee 0.000 ug/kg Serizenee 0.000 ug/kg U	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Deniceme	Batch P3B0103 - *** DEFAULT PREP ***										
Toluene 0.00 " " " " " " " " " " " " " " " " "	Calibration Blank (P3B0103-CCB2)				Prepared &	Analyzed:	02/01/23				
Edebylbenzene 0.00 " "	Benzene	0.00		ug/kg							
Xylene (pín) 0.180 " Xylene (o) 0.00 " Surrogate: I.4-Difluorobenzene 0.0971 " 0.120 80.9 80-120 Surrogate: I.4-Difluorobenzene 0.135 " 0.120 112 80-120 Calibration Check (P3B0103-CCV1) "Prepared & Analyzed: 02/01/23" Benzene 0.0976 0.0010 mg/kg 0.100 88.6 80-120 Tolluce 0.0886 0.0010 " 0.100 88.6 80-120 Xylene (pín) 0.215 0.000 " 0.100 111 80-120 Xylene (pín) 0.215 0.000 " 0.100 110 80-120 Xylene (pín) 0.215 0.0010 " 0.100 105 80-120 Xylene (pín) 0.215 0.0010 " 0.120 117 75-125 Surrogate: -1-Difluorobenzene 0.141 " 0.120 119 80-120 Ellybenzene 0.109 0.0010 "	Toluene	0.00		"							
Sylene (o) 0.00 " "	Ethylbenzene	0.00		"							
Surrogate: 1,4-Difluorobenzene	Xylene (p/m)	0.180		"							
Surrogate: 4-Bromofiluorobenzene 0.135 " 0.120 112 80-12	Xylene (o)	0.00		"							
Prepared & Analyzed: 02/01/23 Prepared & Analyzed: 02/01/23	Surrogate: 1,4-Difluorobenzene	0.0971		"	0.120		80.9	80-120			
Benzene 0.0976 0.00100 mg/kg 0.100 97.6 80-120	Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		112	80-120			
Toluene 0.0886 0.00100 " 0.100 88.6 80-120 Ethylbenzene 0.111 0.00100 " 0.100 111 80-120 Xylene (p/m) 0.215 0.00200 " 0.200 1107 80-120 Xylene (o) 0.105 0.0010 " 0.100 115 80-120 Surrogate: 4-Bromofluorobenzene 0.141 " 0.120 117 75-125 Surrogate: 1,4-Difluorobenzene 0.107 " 0.100 109 80-120 Ethylbenzene 0.0974 0.00100 mg/kg 0.100 109 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.225 0.00200 " 0.200 113 80-120 Xylene (p/m) 0.225 0.00200 " 0.100 119 80-120 Surrogate: 1,4-Difluorobenzene 0.115 0.00100 " 0.100 119 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.108 " 0.120 115 80-120 Ethylbenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.0100 mg/kg 0.100 115 80-120 Ethylbenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Surrogate: 4-Bromofluorobenzene 0.1015 0.00100 mg/kg 0.100 115 80-120 Surrogate: 4-Bromofluorobenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Ethylbenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Xylene (p/m) 0.00100 " 0.1000 115 80-120 Surrogate: 4-Bromofluorobenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Surrogate: 4-Bromofluorobenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Xylene (p/m) 0.00100 " 0.1000 119 80-120 Xylene (p/m) 0.021 0.00200 " 0.0000 110 80-120 Xylene (p/m) 0.021 0.00200 " 0.0000 110 80-120 Xylene (p/m) 0.0010 117 0.00100 " 0.1000 117 80-120	Calibration Check (P3B0103-CCV1)				Prepared &	Analyzed:	02/01/23				
Ethylbenzene 0.111 0.00100 " 0.100 111 80-120	Benzene	0.0976	0.00100	mg/kg	0.100		97.6	80-120			
Nylene (pm)	Toluene	0.0886	0.00100	"	0.100		88.6	80-120			
Sylene (ph 10.21	Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene 0.141	Xylene (p/m)	0.215	0.00200	"	0.200		107	80-120			
Surrogate: 1,4-Difluorobenzene	Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Calibration Check (P3B0103-CCV2)	Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		117	75-125			
Benzene 0.109 0.00100 mg/kg 0.100 109 80-120 Toluene 0.0974 0.00100 " 0.100 97.4 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.225 0.00200 " 0.200 113 80-120 Xylene (o) 0.115 0.00100 " 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.168 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 mg/kg 0.100 115 80-120 Ethylbenzene 0.119 0.00100 mg/kg 0.100 115 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.4	75-125			
Toluene 0.0974 0.00100 " 0.100 97.4 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.225 0.00200 " 0.200 113 80-120 Xylene (o) 0.115 0.00100 " 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 S-G Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Calibration Check (P3B0103-CCV2)				Prepared &	Analyzed:	02/01/23				
Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.225 0.00200 " 0.200 113 80-120 Xylene (o) 0.115 0.00100 " 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 Senzene 0.115 0.00100 mg/kg 0.100 115 80-120 Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Xylene (p/m) 0.225 0.00200 " 0.200 113 80-120 Xylene (o) 0.115 0.00100 " 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 S-G Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Xylene (o) 0.115 0.00100 " 0.100 115 80-120 Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 S-G Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene 0.108 " 0.120 89.6 75-125 Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 S-G Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Xylene (p/m)	0.225	0.00200	"	0.200		113	80-120			
Surrogate: 4-Bromofluorobenzene 0.153 " 0.120 127 75-125 S-G Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Calibration Check (P3B0103-CCV3) Prepared: 02/01/23 Analyzed: 02/02/23 Benzene 0.115 0.00100 mg/kg 0.100 115 mg/kg 80-120 Toluene 0.0997 0.00100 " 0.100 mg/kg 0.100 mg/kg 80-120 Ethylbenzene 0.119 mg/kg 0.00100 " 0.100 mg/kg 0.100 mg/kg 0.100 mg/kg Xylene (p/m) 0.021 mg/kg 0.00200 " 0.100 mg/kg 0.100 mg/kg 0.100 mg/kg 0.100 mg/kg Xylene (o) 0.117 mg/kg 0.00100 " 0.100 mg/kg	Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.6	75-125			
Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		127	75-125			S-G
Benzene 0.115 0.00100 mg/kg 0.100 115 80-120 Toluene 0.0997 0.00100 " 0.100 99.7 80-120 Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Calibration Check (P3B0103-CCV3)				Prepared: ()2/01/23 Aı	nalyzed: 02	/02/23			
Ethylbenzene 0.119 0.00100 " 0.100 119 80-120 Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Xylene (p/m) 0.221 0.00200 " 0.200 110 80-120 Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Xylene (o) 0.117 0.00100 " 0.100 117 80-120 Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene 0.107 " 0.120 89.1 75-125	Xylene (p/m)	0.221	0.00200	"	0.200		110	80-120			
Surrogate: 1,4-Dijiaorobenzene 0.10/ 0.120 05.1 /5-125	Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene 0.143 " 0.120 119 75-125	Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.1	75-125			
	Surrogate: 4-Bromofluorobenzene	0.143		"	0.120		119	75-125			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100

Odessa TX, 79765

Ethylbenzene

Xylene (p/m)

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Xylene (o)

Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0103 - *** DEFAULT PREP ***										
Matrix Spike (P3B0103-MS1)	Sou	rce: 3B01001	-01	Prepared: (02/01/23 A	nalyzed: 02	/02/23			
Benzene	0.0807	0.00106	mg/kg dry	0.106	ND	75.9	80-120			QM-05
Toluene	0.0611	0.00106	"	0.106	ND	57.4	80-120			QM-05
Ethylbenzene	0.0742	0.00106	"	0.106	ND	69.7	80-120			QM-05
Xylene (p/m)	0.133	0.00213	"	0.213	ND	62.4	80-120			QM-05
Xylene (o)	0.0654	0.00106	"	0.106	ND	61.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.151		"	0.128		118	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.128		88.0	80-120			
Matrix Spike Dup (P3B0103-MSD1)	Sou	rce: 3B01001	-01	Prepared: (02/01/23 A	nalyzed: 02	/02/23			
Benzene	0.0905	0.00106	mg/kg dry	0.106	ND	85.1	80-120	11.5	20	
Toluene	0.0696	0.00106	"	0.106	ND	65.5	80-120	13.1	20	QM-05

0.106

0.213

0.106

0.128

0.128

ND

ND

ND

80.3

71.8

70.8

126

89.1

80-120

80-120

80-120

80-120

80-120

14.1

13.9

14.0

20

20

20

QM-05

QM-05

QM-05

0.0854

0.153

0.0753

0.160

0.114

0.00106

0.00213

0.00106

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: SRS#2022-053 Project Manager: Joel Lawry

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

Prepared: 02/03/23 Analyzed: 02/06/23		D 1	Reporting	TT 1	Spike	Source	0/DEC	%REC	DDD	RPD	NT .
Prepared: 02/03/23 Analyzed: 02/06/23	Analyte	Result	Lımıt	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
CC-C12	Batch P3B0306 - TX 1005										
ND	Blank (P3B0306-BLK1)		Prepared: 02/03/23 Analyzed: 02/06/23								
ND 25.0 "	C6-C12	ND	25.0	mg/kg							
Surrogate: 1-Chlorooctane 102	>C12-C28	ND	25.0	"							
Surrogate: o-Terphenyl S5.4 " S0.0 III	>C28-C35	ND	25.0	"							
Coc.	Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
C6-C12	Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			
Surrogate: I-Chlorooctane	LCS (P3B0306-BS1)				Prepared: (02/03/23 A ₁	nalyzed: 02	/06/23			
Surrogate: I-Chlorooctane 107	C6-C12	915	25.0	mg/kg	1000		91.5	75-125			
Color Colo	>C12-C28	891	25.0	"	1000		89.1	75-125			
Description Control of the property Co	Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
C6-C12	Surrogate: o-Terphenyl	60.7		"	50.0		121	70-130			
C12-C28 909 25.0 " 1000 90.9 75-125 1.99 20 Surrogate: I-Chlorooctane 107 " 100 107 70-130 Surrogate: o-Terphenyl 61.7 " 50.0 123 70-130 Calibration Check (P3B0306-CCV1) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 527 25.0 mg/kg 500 105 85-115 >C12-C28 506 25.0 " 500 101 85-115 Surrogate: I-Chlorooctane 109 " 100 109 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 106 85-115 Surrogate: I-Chlorooctane 110 " 100 110 70-130	LCS Dup (P3B0306-BSD1)				Prepared: (02/03/23 Aı	nalyzed: 02	/06/23			
Surrogate: 1-Chlorooctane 107 " 100 107 70-130 Surrogate: o-Terphenyl 61.7 " 50.0 123 70-130 Calibration Check (P3B0306-CCV1) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 527 25.0 mg/kg 500 105 85-115 >C12-C28 506 25.0 " 500 101 85-115 Surrogate: 1-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	C6-C12	921	25.0	mg/kg	1000		92.1	75-125	0.626	20	
Surrogate: 1-Chlorooctane 107 100 107 70-130 Calibration Check (P3B0306-CCV1) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 527 25.0 mg/kg 500 105 85-115 >C12-C28 506 25.0 " 500 101 85-115 Surrogate: 1-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	>C12-C28	909	25.0	"	1000		90.9	75-125	1.99	20	
Calibration Check (P3B0306-CCV1) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 527 25.0 mg/kg 500 105 85-115 >C12-C28 506 25.0 " 500 101 85-115 Surrogate: 1-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
C6-C12 527 25.0 mg/kg 500 105 85-115 >C12-C28 506 25.0 " 500 101 85-115 Surrogate: 1-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	Surrogate: o-Terphenyl	61.7		"	50.0		123	70-130			
>C12-C28 506 25.0 " 500 101 85-115 Surrogate: I-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: I-Chlorooctane 110 " 100 110 70-130	Calibration Check (P3B0306-CCV1)				Prepared: (02/03/23 Aı	nalyzed: 02	/06/23			
Surrogate: 1-Chlorooctane 109 " 100 109 70-130 Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	C6-C12	527	25.0	mg/kg	500		105	85-115			
Surrogate: o-Terphenyl 48.3 " 50.0 96.7 70-130 Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	>C12-C28	506	25.0	"	500		101	85-115			
Calibration Check (P3B0306-CCV2) Prepared: 02/03/23 Analyzed: 02/06/23 C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	Surrogate: o-Terphenyl	48.3		"	50.0		96.7	70-130			
C6-C12 532 25.0 mg/kg 500 106 85-115 >C12-C28 550 25.0 " 500 110 85-115 Surrogate: 1-Chlorooctane 110 " 100 110 70-130	Calibration Check (P3B0306-CCV2)				Prepared: (02/03/23 Aı	nalyzed: 02	/06/23			
Surrogate: 1-Chlorooctane 110 " 100 110 70-130	C6-C12	532	25.0	mg/kg	500		106	85-115			
Surrogate. 1-Cnioroctane 110 100 110 /0-130	>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: o-Terphenyl 48.5 " 50.0 97.0 70-130	Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
	Surrogate: o-Terphenyl	48.5		"	50.0		97.0	70-130			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release Project Number: SRS#2022-053

Project Manager: Joel Lawry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3B0306 - TX 1005										
Calibration Check (P3B0306-CCV3)				Prepared: (02/03/23 A	nalyzed: 02	/06/23			
C6-C12	519	25.0	mg/kg	500		104	85-115			
>C12-C28	544	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.8	70-130			
Duplicate (P3B0306-DUP1)	Sour	ce: 3B01002-	-01	Prepared: (02/03/23 A	nalyzed: 02	/06/23			
C6-C12	189	255	mg/kg dry		215			12.9	20	R.
>C12-C28	4160	255	"		4330			4.04	20	R.
Surrogate: 1-Chlorooctane	98.0		"	102		96.0	70-130			
Surrogate: o-Terphenyl	54.9		"	51.0		108	70-130			

Project: West B4 Release

13000 West County Road 100 Project Number: SRS#2022-053 Odessa TX, 79765 Project Manager: Joel Lawry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B0201 - *** DEFAULT PREP ***										
Blank (P3B0201-BLK1)				Prepared & Analyzed: 02/02/23						
% Moisture	ND	0.1	%							
Blank (P3B0201-BLK2)				Prepared &	Analyzed:	02/02/23				
% Moisture	ND	0.1	%							
Duplicate (P3B0201-DUP1)	Sou	rce: 3A31016-	10	Prepared &	Analyzed:	02/02/23				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3B0201-DUP2)	Sou	rce: 3A31016-	20	Prepared &	Analyzed:	02/02/23				
% Moisture	2.0	0.1	%	_	3.0			40.0	20	R3
Duplicate (P3B0201-DUP3)	Sou	rce: 3A31016-	35	Prepared &	Analyzed:	02/02/23				
% Moisture	3.0	0.1	%		2.0			40.0	20	R3
Duplicate (P3B0201-DUP4)	Sou	rce: 3B01002-	01	Prepared &	Analyzed:	02/02/23				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P3B0311 - *** DEFAULT PREP ***										
Blank (P3B0311-BLK1)				Prepared &	z Analyzed:	02/03/23				
Chloride	ND	1.00	mg/kg	•	•					
LCS (P3B0311-BS1)				Prepared &	Analyzed:	02/03/23				
Chloride	21.4		mg/kg	20.0		107	90-110			
LCS Dup (P3B0311-BSD1)				Prepared &	Analyzed:	02/03/23				
Chloride	21.6		mg/kg	20.0		108	90-110	0.893	10	

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: SRS#2022-053 Project Manager: Joel Lawry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
	Result	Liiiit	- Cilità	Level	Result		Limits	- Ki D		110105
Batch P3B0311 - *** DEFAULT PREP ***										
Calibration Blank (P3B0311-CCB1)				Prepared &	Analyzed:	02/03/23				
Chloride	0.00		mg/kg							
Calibration Blank (P3B0311-CCB2)				Prepared &	z Analyzed:	02/03/23				
Chloride	0.203		mg/kg							
Calibration Check (P3B0311-CCV1)				Prepared &	z Analyzed:	02/03/23				
Chloride	21.7		mg/kg	20.0		108	90-110			
Calibration Check (P3B0311-CCV2)				Prepared &	z Analyzed:	02/03/23				
Chloride	21.7		mg/kg	20.0		108	90-110			
Calibration Check (P3B0311-CCV3)				Prepared &	Analyzed:	02/03/23				
Chloride	20.9		mg/kg	20.0		104	90-110			
Matrix Spike (P3B0311-MS1)	Sour	rce: 3B03006	-01	Prepared &	Analyzed:	02/03/23				
Chloride	362	1.08	mg/kg dry	269	120	89.9	80-120			
Matrix Spike (P3B0311-MS2)	Sour	rce: 3B01001	-06	Prepared &	Analyzed:	02/03/23				
Chloride	288	1.10	mg/kg dry	275	28.6	94.3	80-120			
Matrix Spike Dup (P3B0311-MSD1)	Sou	rce: 3B03006	-01	Prepared &	Analyzed:	02/03/23				
Chloride	393	1.08	mg/kg dry	269	120	101	80-120	8.26	20	
Matrix Spike Dup (P3B0311-MSD2)	Source: 3B01001-06			Prepared & Analyzed: 02/03/23						
Chloride	294	1.10	mg/kg dry	275	28.6	96.5	80-120	2.03	20	

13000 West County Road 100

Odessa TX, 79765

Project Number: SRS#2022-053
Project Manager: Joel Lawry

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-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.

NPBEL CC Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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

	Bun Sarron		
Report Approved By:		Date:	2/7/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. [1] Project: West B4 Release
13000 West County Road 100 Project Number: SRS#2022-053
Odessa TX, 79765 Project Manager: Joel Lawry

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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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Received by OCD: 10/2/2023 1:02:01 Page 143 of 182 ORDER #: (lab use only) Special Instructions: Relinquished by Relinquished by 8 AB # (lab use only) CO 6 Sampler Signature: Joel Lowry City/State/Zip: Company Address: Company Name Project Manager: 33 34 OF VE Telephone No: Please email copy of COC to and results to PM@etechenv.com 3801001 WH @ Surf FIELD CODE NH @ Surf EH @ Surf SH @ Surf WH @ 1.5' EH @ 1.5' NH @ 1.5' SH @ 1.5' 2617 West Marland Etech Environmental & Safety Solutions Joel Lowry Hobbs, NM 88240 (575) 264-9884 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 90:2 Beginning Depth Time Time Time **Ending Depth** 01/26/23 01/26/23 01/26/23 01/26/23 01/26/23 01/26/23 01/26/23 01/26/23 Inc. Date Sampled Fax No: Time Sampled e-mail: Midland, Texas 79701 Permian Basin Environmental Lab, LP Field Filtered 1400 Rankin Hwy PM@etechenv.com Total #. of Containers × × × × × × HNO_{3 250,ml} Poly H2SO4 NaOH Na₂S₂O₃ None 1L Poly 31/23 NaOH/ZnAc DW=Drinking Water SL=Sludge Report Format: S S S S S S S 2:22 Project Name: West B4 Release

NP=Non-Potable Specify Other

BTEX by 8021B

Standard

×

TPH by TX 1005 8015B 8015M

Rush 24 48 72 (Please call)

Project Loc: 32.85094, -103.85942

PO #: SRS-2022-053

Standard

TRRP

NPDES

Project #: 17376

Phone: 432-686-7235

Page 20 of 20

× Released to Imaging: 3/18/2024 1:13:00 PM

Time

Sample Hand Delivered Custody seals on cooler(s)

by Sampler/Client Rep. ? by Courier? UPS

Custody seals on container(s)

~~~~~~

ZZZZZZZ

Sample Containers Intact? VOCs Free of Headspace? _abels on container(s)

_aboratory Comments:

Temperature Upon Receipt: Received: 0, 1 °C F

NCF

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× × × × ×

> × × × ×

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



Analytical Report

Prepared for:

Joel Lowry
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: West B4 Release Project Number: 17376 Location: None Given

Lab Order Number: 3F01012



Current Certification

Report Date: 06/13/23

13000 West County Road 100Project Number:17376Odessa TX, 79765Project Manager:Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG1 @ 6"	3F01012-01	Soil	05/26/23 00:00	06-01-2023 16:19
BG2 @ 6"	3F01012-02	Soil	05/26/23 00:00	06-01-2023 16:19
BG3 @ 6"	3F01012-03	Soil	05/26/23 00:00	06-01-2023 16:19
BG4 @ 6"	3F01012-04	Soil	05/26/23 00:00	06-01-2023 16:19

Project: West B4 Release

13000 West County Road 100

Project Number: 17376 Project Manager: Joel Lowry

Odessa TX, 79765

BG1 @ 6" 3F01012-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
·	resuit	Liiiit	Omes	Dilation	Butten	Trepared	,		
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	0.00159	0.00103	mg/kg dry	1	P3F0610	06/06/23 14:22	06/07/23 19:07	EPA 8021B	
Toluene	0.264	0.0206	mg/kg dry	20	P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Ethylbenzene	1.93	0.0206	mg/kg dry	20	P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Xylene (p/m)	6.55	0.0412	mg/kg dry	20	P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Xylene (o)	2.91	0.0206	mg/kg dry	20	P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	80-120		P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	80-120		P3F0610	06/06/23 14:22	06/08/23 10:32	EPA 8021B	
Organics by GC									
Gasoline Range Organics	2820	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:19	EPA 8015M	
Diesel Range Organics	32200	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:19	EPA 8015M	
Oil Range Organics	5340	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:19	EPA 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-130		P3F0205	06/02/23 13:09	06/02/23 20:19	EPA 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P3F0205	06/02/23 13:09	06/02/23 20:19	EPA 8015M	
General Chemistry Parameters by	EPA / Stand	ard Met	hods						
Chloride	824	1.03	mg/kg dry	1	P3F0612	06/06/23 12:00	06/07/23 08:58	EPA 300.0	
% Moisture	3.0	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

Project: West B4 Release

13000 West County Road 100

Project Number: 17376

Odessa TX, 79765

Project Manager: Joel Lowry

BG2 @ 6" 3F01012-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 01:54	EPA 8021B	
Toluene	0.347	0.0208	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Ethylbenzene	2.44	0.0208	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Xylene (p/m)	8.11	0.0417	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Xylene (o)	3.72	0.0208	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	80-120		P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P3F0804	06/08/23 11:09	06/09/23 12:10	EPA 8021B	
Organics by GC									
Gasoline Range Organics	2940	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:45	EPA 8015M	
Diesel Range Organics	30900	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:45	EPA 8015M	
Oil Range Organics	5080	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 20:45	EPA 8015M	
Surrogate: 1-Chlorooctane		90.4 %	70-130		P3F0205	06/02/23 13:09	06/02/23 20:45	EPA 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P3F0205	06/02/23 13:09	06/02/23 20:45	EPA 8015M	
General Chemistry Parameters by	EPA / Stand	ard Met	hods						
Chloride	572	1.04	mg/kg dry	1	P3F0612	06/06/23 12:00	06/07/23 09:12	EPA 300.0	
% Moisture	4.0	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

Project: West B4 Release

13000 West County Road 100

Project Number: 17376

Odessa TX, 79765

Project Manager: Joel Lowry

BG3 @ 6" 3F01012-03 (Soil)

		Domontino							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:16	EPA 8021B	
Toluene	0.270	0.0206	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Ethylbenzene	1.89	0.0206	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Xylene (p/m)	6.40	0.0412	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Xylene (o)	2.84	0.0206	mg/kg dry	20	P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	80-120		P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P3F0804	06/08/23 11:09	06/09/23 12:31	EPA 8021B	
Organics by GC									
Gasoline Range Organics	2730	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:10	EPA 8015M	
Diesel Range Organics	29800	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:10	EPA 8015M	
Oil Range Organics	5000	515	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:10	EPA 8015M	
Surrogate: 1-Chlorooctane		92.6 %	70-130		P3F0205	06/02/23 13:09	06/02/23 21:10	EPA 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P3F0205	06/02/23 13:09	06/02/23 21:10	EPA 8015M	
General Chemistry Parameters b	y EPA / Stand	lard Met	hods						
Chloride	813	1.03	mg/kg dry	1	P3F0612	06/06/23 12:00	06/07/23 09:26	EPA 300.0	
% Moisture	3.0	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

Project: West B4 Release

13000 West County Road 100

Project Number: 17376 Project Manager: Joel Lowry

Odessa TX, 79765

BG4 @ 6"
3F01012-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	0.0166	0.00104	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Toluene	0.165	0.00104	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Ethylbenzene	0.171	0.00104	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Xylene (p/m)	0.648	0.00208	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Xylene (o)	0.398	0.00104	mg/kg dry	1	P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.7 %	80-120		P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		896 %	80-120		P3F0804	06/08/23 11:09	06/09/23 02:37	EPA 8021B	S-GC
Organics by GC									
Gasoline Range Organics	2650	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:35	EPA 8015M	
Diesel Range Organics	23300	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:35	EPA 8015M	
Oil Range Organics	4120	521	mg/kg dry	20	P3F0205	06/02/23 13:09	06/02/23 21:35	EPA 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P3F0205	06/02/23 13:09	06/02/23 21:35	EPA 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P3F0205	06/02/23 13:09	06/02/23 21:35	EPA 8015M	
General Chemistry Parameters by	y EPA / Stand	lard Met	hods						
Chloride	3010	10.4	mg/kg dry	10	P3F0612	06/06/23 12:00	06/07/23 09:41	EPA 300.0	
% Moisture	4.0	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

Project: West B4 Release Project Number: 17376

Odessa TX, 79765

13000 West County Road 100

Project Manager: Joel Lowry

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

	D 1:	Reporting	TT 1.	Spike	Source	N/DEC	%REC	DDD	RPD	3.7
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0610 - *** DEFAULT PREP ***										
Blank (P3F0610-BLK1)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	ND	0.00100	mg/kg							
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		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.5	80-120			
LCS (P3F0610-BS1)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0891	0.00100	"	0.100		89.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.8	80-120			
LCS Dup (P3F0610-BSD1)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.0972	0.00100	mg/kg	0.100		97.2	80-120	13.4	20	
Toluene	0.0906	0.00100	"	0.100		90.6	80-120	11.2	20	
Ethylbenzene	0.0907	0.00100	"	0.100		90.7	80-120	11.4	20	
Xylene (p/m)	0.164	0.00200	"	0.200		82.0	80-120	8.79	20	
Xylene (o)	0.0813	0.00100	"	0.100		81.3	80-120	9.19	20	
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			
Calibration Blank (P3F0610-CCB1)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.6	80-120			

Permian Basin Environmental Lab, L.P.

Project: West B4 Release Project Number: 17376

13000 West County Road 100 Odessa TX, 79765

Project Manager: Joel Lowry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0610 - *** DEFAULT PREP ***										
Calibration Blank (P3F0610-CCB2)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.6	80-120			
Calibration Check (P3F0610-CCV1)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			
Calibration Check (P3F0610-CCV2)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.9	80-120			
Xylene (o)	0.0865	0.00100	"	0.100		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	75-125			
Calibration Check (P3F0610-CCV3)				Prepared: (06/06/23 Aı	nalyzed: 06	/07/23			
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0996	0.00100	"	0.100		99.6	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.0939	0.00100	"	0.100		93.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.6	75-125			

Permian Basin Environmental Lab, L.P.

Project: West B4 Release

13000 West County Road 100

Project Number: 17376 Project Manager: Joel Lowry

Odessa TX, 79765

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

Permian	Basin	Environmental	Lab,	L.P.

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

Batch P3F0610 - *** DEFAULT PREP ***

Matrix Spike (P3F0610-MS1)	Sour	Source: 3F02005-08				nalyzed: 06	5/07/23			
Benzene	0.0161	0.00104	mg/kg dry	0.104	ND	15.5	80-120	QM-05		
Toluene	0.00200	0.00104	"	0.104	ND	1.92	80-120	QM-05		
Ethylbenzene	0.00166	0.00104	"	0.104	ND	1.59	80-120	QM-05		
Xylene (p/m)	0.0221	0.00208	"	0.208	ND	10.6	80-120	QM-05		
Xylene (o)	0.0218	0.00104	"	0.104	ND	20.9	80-120	QM-05		
Surrogate: 4-Bromofluorobenzene	0.107		"	0.125		85.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.125		94.4	80-120			

Matrix Spike Dup (P3F0610-MSD1)	Sour	ce: 3F02005-08	Prepared: (06/06/23 A	nalyzed: 06	5/07/23
Рондоно	0.0165	0.00104	0.104	ND	150	90 120

Benzene	0.0165	0.00104	mg/kg dry	0.104	ND	15.8	80-120	2.17	20	QM-05
Toluene	0.00297	0.00104	"	0.104	ND	2.85	80-120	39.0	20	QM-05
Ethylbenzene	0.00253	0.00104	"	0.104	ND	2.43	80-120	41.8	20	QM-05
Xylene (p/m)	0.0219	0.00208	"	0.208	ND	10.5	80-120	0.995	20	QM-05
Xylene (o)	0.0238	0.00104	"	0.104	ND	22.9	80-120	8.95	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.109		"	0.125		87.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.125		97.6	80-120			

Batch P3F0804 - *** DEFAULT PREP ***

Blank (P3F0804-BLK1)				Prepared: 06/08/2	3 Analyzed: 06/	09/23	
Benzene	ND	0.00100	mg/kg				
Toluene	ND	0.00100	"				
Ethylbenzene	ND	0.00100	"				
Xylene (p/m)	ND	0.00200	"				
Xylene (o)	ND	0.00100	"				
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120	92.8	80-120	
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120	96.7	80-120	

Permian Basin Environmental Lab, L.P.

Project: West B4 Release Project Number: 17376

13000 West County Road 100 Odessa TX, 79765

Project Manager: Joel Lowry

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

		Reporting	***	Spike	Source	0/850	%REC	D.P.P.	RPD	37
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0804 - *** DEFAULT PREP ***										
LCS (P3F0804-BS1)				Prepared: 0	06/08/23 A1	nalyzed: 06	/09/23			
Benzene	0.118	0.00100	mg/kg	0.100		118	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)	0.228	0.00200	"	0.200		114	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			
LCS Dup (P3F0804-BSD1)				Prepared: 0	06/08/23 Aı	nalyzed: 06	/09/23			
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120	10.5	20	
Toluene	0.102	0.00100	"	0.100		102	80-120	13.0	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	7.78	20	
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120	13.0	20	
Xylene (o)	0.0904	0.00100	"	0.100		90.4	80-120	14.3	20	
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			
Calibration Blank (P3F0804-CCB1)				Prepared: 0	06/08/23 Aı	nalyzed: 06	/09/23			
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.100		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	80-120			
Calibration Blank (P3F0804-CCB2)				Prepared: 0	06/08/23 Aı	nalyzed: 06	/09/23			
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.460		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			

Permian Basin Environmental Lab, L.P.

Project: West B4 Release

13000 West County Road 100 Odessa TX, 79765 Project Number: 17376 Project Manager: Joel Lowry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0804 - *** DEFAULT PREP ***										
Calibration Check (P3F0804-CCV1)				Prepared: 0	06/08/23 A	nalyzed: 06	/09/23			
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0933	0.00100	"	0.100		93.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	75-125			
Calibration Check (P3F0804-CCV2)				Prepared: 0	06/08/23 At	nalyzed: 06	/09/23			
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.108	0.00100	"	0.100		108	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0986	0.00100	"	0.100		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Calibration Check (P3F0804-CCV3)				Prepared: 0	06/08/23 A	nalyzed: 06	/09/23			
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	75-125			
Matrix Spike (P3F0804-MS1)	Sou	ırce: 3F01015	-01	Prepared: 0	06/08/23 At	nalyzed: 06	/09/23			
Benzene	0.114	0.00116	mg/kg dry	0.116	ND	97.8	80-120			
Toluene	0.109	0.00116	"	0.116	ND	93.9	80-120			
Ethylbenzene	0.109	0.00116	"	0.116	ND	94.1	80-120			
Xylene (p/m)	0.200	0.00233	"	0.233	ND	86.2	80-120			
Xylene (o)	0.0959	0.00116	"	0.116	ND	82.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.160		"	0.140		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.140		98.8	80-120			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: 17376 Project Manager: Joel Lowry

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

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

Batch P3F0804 - *** DEFAULT PREP ***

Matrix Spike Dup (P3F0804-MSD1)	Sour	ce: 3F01015	-01	Prepared: 0	6/08/23 A	nalyzed: 06	5/09/23			
Benzene	0.116	0.00116	mg/kg dry	0.116	ND	99.7	80-120	1.95	20	
Toluene	0.112	0.00116	"	0.116	ND	96.1	80-120	2.33	20	
Ethylbenzene	0.112	0.00116	"	0.116	ND	96.2	80-120	2.24	20	
Xylene (p/m)	0.207	0.00233	"	0.233	ND	89.1	80-120	3.30	20	
Xylene (o)	0.0979	0.00116	"	0.116	ND	84.2	80-120	1.98	20	
Surrogate: 4-Bromofluorobenzene	0.159		"	0.140		114	80-120			
Surrogate: 1,4-Difluorobenzene	0.137		"	0.140		98.5	80-120			

Project: West B4 Release Project Number: 17376

Odessa TX, 79765

13000 West County Road 100

Project Manager: Joel Lowry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0205 - TX 1005										
Blank (P3F0205-BLK1)				Prepared &	Analyzed:	06/02/23				
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			
LCS (P3F0205-BS1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	1170	25.0	mg/kg				75-125			
Diesel Range Organics	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			
LCS Dup (P3F0205-BSD1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	1140	25.0	mg/kg				75-125		20	
Diesel Range Organics	1160	25.0	"	1000		116	75-125	0.0674	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			
Calibration Check (P3F0205-CCV1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	462	25.0	mg/kg	500		92.3	85-115			
Diesel Range Organics	454	25.0	"	500		90.9	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	85-115			
Surrogate: o-Terphenyl	47.3		"	50.0		94.5	85-115			
Calibration Check (P3F0205-CCV2)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	464	25.0	mg/kg	500		92.7	85-115			
Diesel Range Organics	436	25.0	"	500		87.2	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	85-115			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	85-115			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: 17376 Project Manager: Joel Lowry

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

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

Batch P3F0205 - TX 1005

Calibration Check (P3F0205-CCV3)				Prepared: 06/02	2/23 Analyzed: 06	/03/23
Gasoline Range Organics	471	25.0	mg/kg	500	94.1	85-115
Diesel Range Organics	465	25.0	"	500	93.0	85-115
Surrogate: 1-Chlorooctane	106		"	100	106	85-115
Surrogate: o-Terphenyl	48.8		"	50.0	97.7	85-115

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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

Project: West B4 Release

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0504 - *** DEFAULT PREP ***										
Blank (P3F0504-BLK1)				Prepared &	: Analyzed:	06/05/23				
% Moisture	ND	0.1	%							
Blank (P3F0504-BLK2)				Prepared &	: Analyzed:	06/05/23				
% Moisture	1.0	0.1	%	-	•					
Duplicate (P3F0504-DUP1)	Sou	rce: 3F02002-	02	Prepared &	: Analyzed:	06/05/23				
% Moisture	10.0	0.1	%	•	10.0			0.00	20	
Duplicate (P3F0504-DUP2)	Sou	rce: 3F02005-	04	Prepared &	: Analyzed:	06/05/23				
% Moisture	5.0	0.1	%	-	6.0			18.2	20	
Duplicate (P3F0504-DUP3)	Sou	rce: 3F02005-	19	Prepared &	: Analyzed:	06/05/23				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P3F0504-DUP4)	Sou	rce: 3F02006-	08	Prepared &	: Analyzed:	06/05/23				
% Moisture	4.0	0.1	%		3.0			28.6	20	R.
Batch P3F0612 - *** DEFAULT PREP ***										
Blank (P3F0612-BLK1)				Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	ND	1.00	mg/kg	-						
LCS (P3F0612-BS1)				Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	19.5		mg/kg	20.0		97.3	90-110			
LCS Dup (P3F0612-BSD1)				Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	19.5		mg/kg	20.0		97.3	90-110	0.0360	10	

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0612 - *** DEFAULT PREP ***									
Calibration Check (P3F0612-CCV1)			Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	20.0	mg/kg	20.0		100	90-110			
Calibration Check (P3F0612-CCV2)			Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	19.1	mg/kg	20.0		95.3	90-110			
Calibration Check (P3F0612-CCV3)			Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	19.1	mg/kg	20.0		95.3	90-110			
Matrix Spike (P3F0612-MS1)	Sour	ce: 3F05005-23	Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	121	mg/kg	100	20.0	101	80-120			
Matrix Spike (P3F0612-MS2)	Sour	ce: 3F02004-04	Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	127	mg/kg	100	31.4	95.6	80-120			
Matrix Spike Dup (P3F0612-MSD1)	Sour	ce: 3F05005-23	Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	120	mg/kg	100	20.0	99.9	80-120	0.950	20	
Matrix Spike Dup (P3F0612-MSD2)	Sour	ce: 3F02004-04	Prepared: (06/06/23 A	nalyzed: 06	5/07/23			
Chloride	128	mg/kg	100	31.4	96.6	80-120	0.763	20	

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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-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.

NPBEL Ct Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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: 6/13/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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



Analytical Report

Prepared for:

Joel Lowry
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: West B4 Release Project Number: 17376 Location: None Given

Lab Order Number: 3F01013



Current Certification

Report Date: 06/12/23

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: 17376 Project Manager: Joel Lowry

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1 @ 6'	3F01013-01	Soil	05/26/23 00:00	06-01-2023 16:32
V1 @ 7'	3F01013-02	Soil	05/26/23 00:00	06-01-2023 16:32

afety Solutions, Inc. Project: West B4 Release

13000 West County Road 100 Odessa TX, 79765 Project Number: 17376 Project Manager: Joel Lowry

V1 @ 6' 3F01013-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian Ba	asin Envi	ronmental L	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Ethylbenzene	0.0123	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.7 %	80-120		P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P3F0609	06/06/23 11:53	06/06/23 19:05	EPA 8021B	
Organics by GC									
Gasoline Range Organics	33.4	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:15	EPA 8015M	
Diesel Range Organics	1090	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:15	EPA 8015M	
Oil Range Organics	474	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:15	EPA 8015M	
Surrogate: 1-Chlorooctane		89.8 %	70-130		P3F0205	06/02/23 13:09	06/04/23 17:15	EPA 8015M	
Surrogate: o-Terphenyl		94.5 %	70-130		P3F0205	06/02/23 13:09	06/04/23 17:15	EPA 8015M	
General Chemistry Parameters b	y EPA / Stand	lard Met	hods						
Chloride	32.3	1.06	mg/kg dry	1	P3F0203	06/02/23 11:18	06/05/23 15:58	EPA 300.0	
% Moisture	6.0	0.1	%	1	P3F0201	06/02/23 09:20	06/02/23 09:36	ASTM D2216	

Project: West B4 Release

13000 West County Road 100

Project Number: 17376 Project Manager: Joel Lowry

Odessa TX, 79765

V1 @ 7' 3F01013-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.3 %	80-120		P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P3F0609	06/06/23 11:53	06/06/23 19:25	EPA 8021B	
Organics by GC									
Gasoline Range Organics	ND	26.3	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:40	EPA 8015M	
Diesel Range Organics	1660	26.3	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:40	EPA 8015M	
Oil Range Organics	676	26.3	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 17:40	EPA 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		P3F0205	06/02/23 13:09	06/04/23 17:40	EPA 8015M	
Surrogate: o-Terphenyl		95.0 %	70-130		P3F0205	06/02/23 13:09	06/04/23 17:40	EPA 8015M	
General Chemistry Parameters b	y EPA / Stand	lard Met	hods						
Chloride	14.2	1.05	mg/kg dry	1	P3F0203	06/02/23 11:18	06/05/23 16:12	EPA 300.0	
% Moisture	5.0	0.1	%	1	P3F0201	06/02/23 09:20	06/02/23 09:36	ASTM D2216	

Project: West B4 Release

13000 West County Road 100

Project Number: 17376 Project Manager: Joel Lowry

Odessa TX, 79765

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

Analyta	D ac14	Reporting	I In: '4-	Spike	Source	0/DEC	%REC	מתם	RPD Limit	NT-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0609 - *** DEFAULT PREP ***										
Blank (P3F0609-BLK1)				Prepared &	Analyzed:	06/06/23				
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.8	80-120			
LCS (P3F0609-BS1)				Prepared &	: Analyzed:	06/06/23				
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Kylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	80-120			
LCS Dup (P3F0609-BSD1)				Prepared &	: Analyzed:	06/06/23				
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120	4.31	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.35	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	2.66	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	2.27	20	
Xylene (o)	0.0994	0.00100	"	0.100		99.4	80-120	2.41	20	
Gurrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	80-120			
Calibration Blank (P3F0609-CCB1)				Prepared &	Analyzed:	06/06/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Kylene (p/m)	0.280		"							
Kylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.6	80-120			

Permian Basin Environmental Lab, L.P.

Project: West B4 Release Project Number: 17376

13000 West County Road 100 Odessa TX, 79765

Project Manager: Joel Lowry

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0609 - *** DEFAULT PREP ***										
Calibration Blank (P3F0609-CCB2)				Prepared &	z Analyzed:	06/06/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			
Calibration Check (P3F0609-CCV1)				Prepared &	Analyzed:	06/06/23				
Benzene	0.0992	0.00100	mg/kg	0.100		99.2	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.1	80-120			
Xylene (o)	0.0912	0.00100	"	0.100		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			
Calibration Check (P3F0609-CCV2)				Prepared &	Analyzed:	06/06/23				
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.0972	0.00100	"	0.100		97.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.7	75-125			
Calibration Check (P3F0609-CCV3)				Prepared: (06/06/23 A	nalyzed: 06	/07/23			
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: 17376 Project Manager: Joel Lowry

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

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

Batch P3F0609 - *** DEFAULT PREP ***

Surrogate: 1,4-Difluorobenzene

Matrix Spike (P3F0609-MS1)	Soi	urce: 3F06007	-01	Prepared: 0	6/06/23	Analyzed: 06	5/07/23			
Benzene	0.0987	0.00102	mg/kg dry	0.102	ND	96.8	80-120			
Toluene	0.0848	0.00102	"	0.102	ND	83.1	80-120			
Ethylbenzene	0.0853	0.00102	"	0.102	ND	83.6	80-120			
Xylene (p/m)	0.150	0.00204	"	0.204	ND	73.5	80-120			QM-05
Xylene (o)	0.0781	0.00102	"	0.102	ND	76.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.123		"	0.122		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		99.2	80-120			
Matrix Spike Dup (P3F0609-MSD1)	Soi	urce: 3F06007	-01	Prepared: 0	6/06/23	Analyzed: 00	6/07/23			
Benzene	0.108	0.00102	mg/kg dry	0.102	ND	106	80-120	8.84	20	
Toluene	0.0983	0.00102	"	0.102	ND	96.3	80-120	14.7	20	
Ethylbenzene	0.0994	0.00102	"	0.102	ND	97.4	80-120	15.3	20	
Xylene (p/m)	0.180	0.00204	"	0.204	ND	88.1	80-120	18.1	20	
Xylene (o)	0.0871	0.00102	"	0.102	ND	85.4	80-120	10.9	20	
Surrogate: 4-Bromofluorobenzene	0.129		"	0.122		105	80-120			

0.122

97.9

80-120

0.120

Project: West B4 Release

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project Number: 17376 Project Manager: Joel Lowry

Organics by GC - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0205 - TX 1005										
Blank (P3F0205-BLK1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			
LCS (P3F0205-BS1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	1170	25.0	mg/kg				75-125			
Diesel Range Organics	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			
LCS Dup (P3F0205-BSD1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	1140	25.0	mg/kg				75-125		20	
Diesel Range Organics	1160	25.0	"	1000		116	75-125	0.0674	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	50.2		"	50.0		100	70-130			
Calibration Check (P3F0205-CCV1)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	462	25.0	mg/kg	500		92.3	85-115			
Diesel Range Organics	454	25.0	"	500		90.9	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	85-115			
Surrogate: o-Terphenyl	47.3		"	50.0		94.5	85-115			
Calibration Check (P3F0205-CCV2)				Prepared &	: Analyzed:	06/02/23				
Gasoline Range Organics	464	25.0	mg/kg	500		92.7	85-115			
Diesel Range Organics	436	25.0	"	500		87.2	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	85-115			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	85-115			

Permian Basin Environmental Lab, L.P.

13000 West County Road 100 Odessa TX, 79765 Project: West B4 Release

Project Number: 17376 Project Manager: Joel Lowry

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

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

Batch P3F0205 - TX 1005

Calibration Check (P3F0205-CCV3)				Prepared: 06/02	2/23 Analyzed: 06	/03/23
Gasoline Range Organics	471	25.0	mg/kg	500	94.1	85-115
Diesel Range Organics	465	25.0	"	500	93.0	85-115
Surrogate: 1-Chlorooctane	106		"	100	106	85-115
Surrogate: o-Terphenyl	48.8		"	50.0	97.7	85-115

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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 P3F0201 - *** DEFAULT PREP ***										
Blank (P3F0201-BLK1)				Prepared &	Analyzed:	06/02/23				
% Moisture	ND	0.1	%							
Blank (P3F0201-BLK2)				Prepared &	Analyzed:	06/02/23				
% Moisture	ND	0.1	%							
Blank (P3F0201-BLK3)				Prepared &	Analyzed:	06/02/23				
% Moisture	ND	0.1	%							
Blank (P3F0201-BLK4)				Prepared &	Analyzed:	06/02/23				
% Moisture	ND	0.1	%							
Blank (P3F0201-BLK5)				Prepared &	Analyzed:	06/02/23				
% Moisture	ND	0.1	%							
Duplicate (P3F0201-DUP1)	Sou	rce: 3E31009-1	10	Prepared &	Analyzed:	06/02/23				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3F0201-DUP2)	Sou	rce: 3E31009-2	20	Prepared &	Analyzed:	06/02/23				
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P3F0201-DUP3)	Sou	rce: 3E31009-3	35	Prepared &	Analyzed:	06/02/23				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P3F0201-DUP4)	Sou	rce: 3E31009-4	45	Prepared &	Analyzed:	06/02/23				
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P3F0201-DUP5)	Sour	rce: 3F01005-0)2	Prepared &	Analyzed:	06/02/23				
% Moisture	9.0	0.1	%		9.0			0.00	20	

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

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

Project: West B4 Release

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0201 - *** DEFAULT PREP ***										
Duplicate (P3F0201-DUP6)	Sou	rce: 3F01006-	01	Prepared &	z Analyzed:	06/02/23				
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P3F0201-DUP7)	Sou	rce: 3F01006-	Prepared &	Prepared & Analyzed: 06/02/23						
% Moisture	9.0	0.1	%		11.0			20.0	20	
Duplicate (P3F0201-DUP8)	Sou	rce: 3F01009-	05	Prepared &	Analyzed:	06/02/23				
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P3F0201-DUP9)	Sou	rce: 3F01010-	10	Prepared &	Analyzed:	06/02/23				
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P3F0201-DUPA)	Source: 3F01013-01			Prepared &	Analyzed:	06/02/23				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Batch P3F0203 - *** DEFAULT PREP ***										
Blank (P3F0203-BLK1)				Prepared: (06/02/23 A	nalyzed: 06	5/03/23			
Chloride	ND	1.00	mg/kg	*						
LCS (P3F0203-BS1)				Prepared: (06/02/23 A:	nalyzed: 06	5/04/23			
Chloride	19.2		mg/kg	20.0		96.2	90-110			
LCS Dup (P3F0203-BSD1)				Prepared: (06/02/23 A	nalyzed: 06	5/04/23			
Chloride	19.4		mg/kg	20.0		97.1	90-110	0.890	10	
Calibration Check (P3F0203-CCV1)				Prepared: (06/02/23 A	nalyzed: 06	5/04/23			
Chloride	19.8		mg/kg	20.0		98.9	90-110			

Project: West B4 Release

13000 West County Road 100 Odessa TX, 79765 Project Number: 17376 Project Manager: Joel Lowry

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3F0203 - *** DEFAULT PREP ***										
Calibration Check (P3F0203-CCV2)				Prepared: (06/02/23 A	nalyzed: 06	5/04/23			
Chloride	19.7		mg/kg	20.0		98.5	90-110			
Calibration Check (P3F0203-CCV3)				Prepared: (06/02/23 A	nalyzed: 06	6/04/23			
Chloride	19.7		mg/kg	20.0		98.7	90-110			
Matrix Spike (P3F0203-MS1)	Sour	ce: 3E31009-	29	Prepared: (06/02/23 A	nalyzed: 06	5/03/23			
Chloride	30.0		mg/kg	100	38.8	NR	80-120			QM-05
Matrix Spike (P3F0203-MS2)	Sour	ce: 3F01007-0	01	Prepared: (06/02/23 A	nalyzed: 06	5/03/23			
Chloride	8.84		mg/kg	100	22.6	NR	80-120			QM-05
Matrix Spike Dup (P3F0203-MSD1)	Sour	ce: 3E31009-	29	Prepared: (06/02/23 A	nalyzed: 06	5/03/23			
Chloride	41.7		mg/kg	100	38.8	2.90	80-120	32.7	20	QM-05
Matrix Spike Dup (P3F0203-MSD2)	Sour	ce: 3F01007-	01	Prepared: (06/02/23 A	nalyzed: 06	5/03/23			
Chloride	8.02		mg/kg	100	22.6	NR	80-120		20	QM-05

13000 West County Road 100Project Number: 17376Odessa TX, 79765Project Manager: Joel Lowry

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

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.

NPBEL CC Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

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: 6/12/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

13000 West County Road 100Project Number:17376Odessa TX, 79765Project Manager:Joel Lowry

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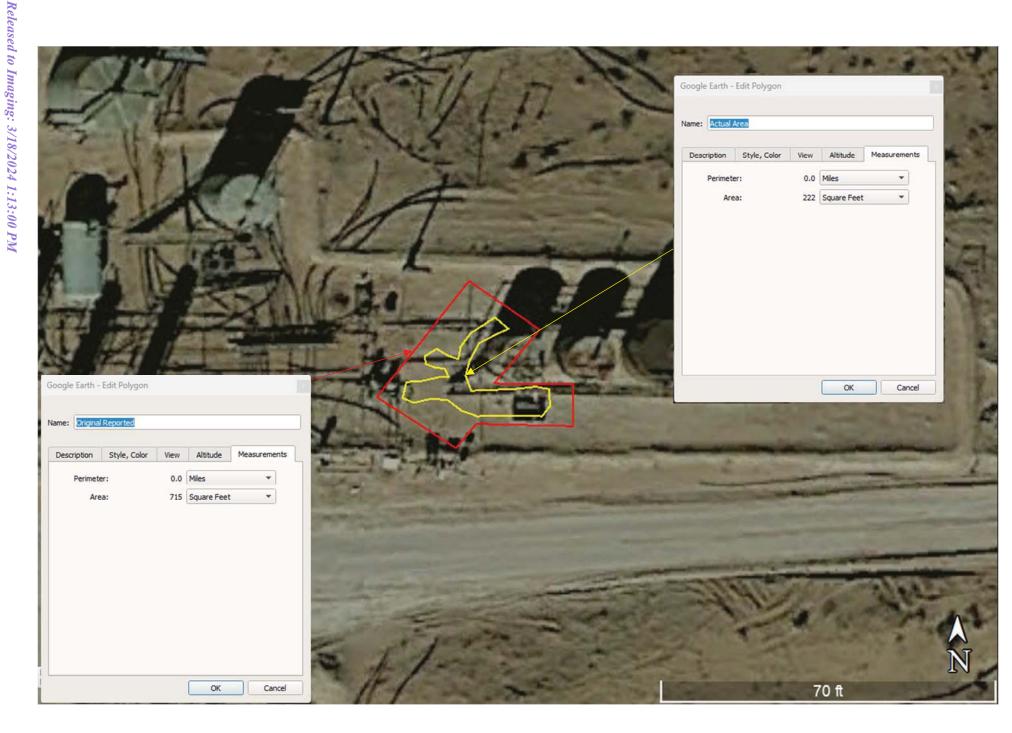
If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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 $Attachment \ \#9-Volume \ Calculation \ Spread \ Sheets$



Cail Tuna	Est. Poi
Soil Type	Space
Clay	15
Sandy Clay	12
Silt	16
Loess	25
Fine Sand	16
Med. Sand	25
Coarse Sand	26
Gravelly Sand	26
Fine Gravel	26
Med. Gravel	25
Coarse Gravel	18
Compacted Caliche	16
Pad	10
Loosely Compacted	
Caliche Pad	20

Released to

Imaging: 3/18/2024 1:13:00 PM

Location:	Plains West B4 (Original)
Location:	·

Rule of Thumb

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet 0 = Cubic Feet

= Length in Feet 0 = Gallons Per Total Cubic Feet

= Depth in Inches

0 = Depth in Feet 0 = Gallons Of Oil In Soil 0.0 = Barrel Of Oil In Soil

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing,

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet 225 = Cubic Feet

1683 = Gallons Per Total Cubic Feet

30 = Width in Feet

15 = Length in Feet

450 = Square Feet Subtotal

6 = Depth in Inches

202 = Gallons Of Oil In Soil

4.8 = Barrel Of Oil In Soil

0.5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

201.96 = Gallons of Oil In Soil

4.8 = Barrels of Oil In Soil

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

33 = Width in Feet

8 = Length in Feet 264 = Square Feet Subtotal 132 = Cubic Feet

987.36 = Gallons Per Total Cubic Feet

118 = Gallons Of Oil In Soil

2.8 = Barrel Of Oil In Soil

6 = Depth in Inches

0.5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

118.48 = Gallons of Oil In Soil

2.8 = Barrels of Oil In Soil

Total Square Feet	714
Cubic Feet	357
Gallons per Total Cubic Feet	2670.36
Gallons of Oil in Soil	320.4432
Total Estimated Barrels of Oil in Soil	7.6

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Soil Type	Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche	16%
Pad	1070
Loosely Compacted	
Caliche Pad	20%

Released to Imaging: 3/18/2024 1:13:00 PM

Plains West B4 (Revised) Location:

Rule of Thumb

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet 0 = Cubic Feet

= Length in Feet 0 = Gallons Per Total Cubic Feet

= Depth in Inches

0 = Gallons Of Oil In Soil 0 = Depth in Feet 0.0 = Barrel Of Oil In Soil

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing,

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

N/A = Width in Feet N/A = Length in Feet = Square Feet Subtotal N/A 6 = Depth in Inches

0.5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

12% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

= Width in Feet N/A = Length in Feet = Square Feet Subtotal N/A 6 = Depth in Inches 0.5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

0.00 = Gallons of Oil In Soil

0.0 = Barrels of Oil In Soil

Total Square Feet	250
Cubic Feet	125
Gallons per Total Cubic Feet	935
Gallons of Oil in Soil	112.2
Total Estimated Barrels of Oil in Soil	2.7

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 271353

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900 Houston, TX 77002	Action Number: 271353
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved.	3/18/2024
amaxwell	Submit a report via the OCD permitting portal by July 19, 2024.	3/18/2024