



Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				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)
NW 1	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
NW 2	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432.0
EW 1	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592.0
EW 2	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480.0
WW 1	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272.0
WW 2	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
SW1	7/29/24	4'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640.0
SW 1B	8/5/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
SW 2	7/29/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272.0
NW3	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.0
WW3	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
EW3	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
Floor 1	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
Floor 2	9/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 3	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 4	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.00
Floor 5	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 6	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.00
Floor 7	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 8	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.00
Floor 9	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.00
Floor 10	8/19/24	4'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.00
Floor 11	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 12	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112.00
Floor 13	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 14	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112.00
Floor 15	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.00
Floor 16	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112.00
Floor 17	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.00
Floor 18	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.00
Closure Criteria				10	50	-	-	100	-	100	600

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500Cl
				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)
Floor 19	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
Floor 20	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
Floor 21	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
Floor 22	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128.0
Floor 23	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
Floor 24	8/19/24	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112.0
Closure Criteria				10	50	-	-	100	-	100	600

**LEGEND:**

- Sample Point
- Affected Area

Figure 3

Site & Sample Location Map
Permian Resources

Go Pogo

GPS: 32.365355,-104.243982

Eddy County, New Mexico

PERMIAN
RESOURCES

Drafted by: MST

PHOTOGRAPHIC LOG



Figure 1 View of excation looking north.



Figure 2 View of excavation looking north west.

PHOTOGRAPHIC LOG



Figure 3 View of excavation looking south.



Figure 4 View of excavation looking Southwest.

PHOTOGRAPHIC LOG



Figure 5 View looking north east.



Figure 6 View looking northwest.

PHOTOGRAPHIC LOG



Figure 7 View looking south east.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 02, 2024

MATT TAYLOR
PERMIAN RESOURCES
300 W MARIENFELD ST. STE. 1000
MIDLAND, TX 79701

RE: GO POGO

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H244543-01)

BTX 80218		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H244543-02)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTEX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/01/2024	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H244543-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 2 (H244543-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H244543-05)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTEX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H244543-06)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTEX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (H244543-07)

mg/kg		Analyzed By: JH							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTEX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 07/30/2024
Reported: 08/02/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 07/29/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H244543-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	8.67	
Toluene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	13.2	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.69	134	2.00	15.1	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	8.15	136	6.00	14.8	
Total BTEX	<0.300	0.300	07/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/01/2024	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	205	102	200	3.29	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	192	96.2	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

Page 11 of 11



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 09, 2024

MATT TAYLOR

PERMIAN RESOURCES

300 W MARIENFELD ST. STE. 1000

MIDLAND, TX 79701

RE: GO POGO

Enclosed are the results of analyses for samples received by the laboratory on 08/05/24 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/05/2024
Reported: 08/09/2024
Project Name: GO POGO
Project Number: NONE GIVEN
Project Location: EDDY CO, NM

Sampling Date: 08/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 1B (H244686-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2024	ND	2.10	105	2.00	0.768	
Toluene*	<0.050	0.050	08/06/2024	ND	2.29	114	2.00	1.97	
Ethylbenzene*	<0.050	0.050	08/06/2024	ND	2.39	120	2.00	1.08	
Total Xylenes*	<0.150	0.150	08/06/2024	ND	7.29	121	6.00	0.252	
Total BTEX	<0.300	0.300	08/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500C-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	190	95.0	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	181	90.5	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					

Surrogate: 1-Chlorooctane 65.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Permian Resources Project Manager: Maht-Ajla Address: _____ Phone #: 575-402-3638 Fax #: _____ Project Owner: Permian Resources Project Name: Go-Pe-go Project Location: Edgely Sample Name: Maht-Ajla FOR LAB USE ONLY		P.O. #: _____ Company: Permian Resources Attn: _____	
Lab I.D. Sample I.D.		BILL TO ANALYSIS REQUEST	
#1244000 SW 10 B		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME	
8-5-84 1:501 Time:		PRESERV SAMPLING TPH 8015 M. Ext (New Mexico) Chloride 4500 Cl-B BTEX 8021 TPH TX 1005 RUSH	
Relinquished By: _____ Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Received By: _____ Sample Condition Cool Intact Yes ☒ No ☐ Checked By: (Initials) AP	
Relinquished By: _____ Time:		REMARKS:	



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 21, 2024

MATT TAYLOR
PERMIAN RESOURCES
300 W MARIENFELD ST. STE. 1000
MIDLAND, TX 79701

RE: GO POGO

Enclosed are the results of analyses for samples received by the laboratory on 08/20/24 8:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 1 (H245040-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 2 (H245040-02)

BTEX 80218		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10* <10.0 10.0 08/20/2024 ND 212 106 200 1.68
DRO >C10-C28* <10.0 10.0 08/20/2024 ND 204 102 200 0.305
EXT DRO >C28-C36 <10.0 10.0 08/20/2024 ND

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 3 (H245040-03)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 4 (H245040-04)

BTEX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 5 (H245040-05)

BTEX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 6 (H245040-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 7 (H245040-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67		
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25		
Total BTEX	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 8 (H245040-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67		
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25		
Total BTEX	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 9 (H245040-09)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 10 (H245040-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 11 (H245040-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 65.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 12 (H245040-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 13 (H245040-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 14 (H245040-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 15 (H245040-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67		
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25		
Total BTEX	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/20/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 16 (H245040-16)

BTEX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 17 (H245040-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 18 (H245040-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 19 (H245040-19)

BTEX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 20 (H245040-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	1.97	98.4	2.00	4.67	
Toluene*	<0.050	0.050	08/20/2024	ND	1.91	95.4	2.00	3.37	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	1.92	96.1	2.00	2.13	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	5.78	96.3	6.00	1.25	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	212	106	200	1.68	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	204	102	200	0.305	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 21 (H245040-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 22 (H245040-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 23 (H245040-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FLOOR 24 (H245040-24)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H245040-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (H245040-26)

BTEX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTEX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

PERMIAN RESOURCES
MATT TAYLOR
300 W MARIENFELD ST. STE. 1000
MIDLAND TX, 79701
Fax To:

Received: 08/20/2024
Reported: 08/21/2024
Project Name: GO POGO
Project Number: #1
Project Location: EDDY CO, NM

Sampling Date: 08/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H245040-27)

BTX 80218		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	08/20/2024	ND	2.15	108	2.00	1.67	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	1.49	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.64	111	6.00	0.897	
Total BTX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	204	102	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	202	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 32

Page 31 of 32



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: <i>Permian Resources</i> Project Manager: <i>MaH Ayia</i> Address: Phone #: <i>575-408-3638</i> Fax #: Project Owner: <i>Permian Resources</i> Project Name: <i>Copago #1</i> Project Location: Sampler Name: <i>MaH Ayia</i>		P.O. #: Company: <i>Permian Resources</i> Att:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. <i>1845040</i> <i>31</i> <i>33</i> <i>33</i> <i>34</i> <i>35</i> <i>36</i> <i>37</i>	Sample I.D. <i>F160E 21</i> <i>F160E 22</i> <i>F160E 23</i> <i>F160E 24</i> <i>NW3</i> <i>EW3</i> <i>LW3</i>	ANALYSIS REQUEST	
		TPH 8015 M. Ext (New Mexico) Chloride 4600 Cl-B BTEX 8021 TPH TX 1005 RUSH	
Matrix (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		PRESERV. SAMPLING	
DATE <i>8/24/24</i> <i>10:40</i> <i>10:45</i> <i>10:50</i> <i>10:55</i> <i>11:30</i> <i>11:35</i> <i>11:40</i>		TIME <i>X</i> <i>X</i> <i>X</i> <i>X</i> <i>X</i> <i>X</i> <i>X</i>	
DELIVERED BY: (Circle One) UPS ☒ BUS ☐ OTHER ☐		RECEIVED BY: <i>Spodeigney</i> Signature: <i>Kushy 8/24/24</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 423664

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 423664
	Action Type: [IM-SD] Well File Support Doc (ENV) (IM-BWF)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/22/2025