

July 30, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BLACK RIVER FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

A ... - L ... - - - I D. .. MC

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 1 FLOOR @ 1' (H802017-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	98.0 9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	96.5 9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 2 FLOOR @ 1' (H802017-02)

BTEX 8021B	mg/	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.8-14	!2						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	315	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	524	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.7	% 37.6-14	!7						

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Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 3 FLOOR @ 2' (H802017-03)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.8-14	12						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	11.3	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	90.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: **BLACK RIVER FEDERAL #1** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 4 FLOOR @ 1' (H802017-04)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	72.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	69.8	% 37.6-14	7						

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Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 5 WALL (H802017-05)

RTFY 8021R

BIEX 8021B	mg,	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	90.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	89.1	% 37.6-14	7						

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(\* \*)

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 6 WALL (H802017-06)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	< 0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	< 0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.8-14	22						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	89.6	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	237	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	7						

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Received: 07/24/2018 Reported: 07/30/2018

Project Name: **BLACK RIVER FEDERAL #1** 

Project Number: NONE GIVEN

Project Location: CHISHOLM ENERGY - EDDY CO NM Sampling Date: 07/19/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: SP 7 WALL (H802017-07)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	12						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	75.2	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	174	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	77.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.3	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Analyzed By: MC

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 8 WALL (H802017-08)

RTFY 8021R

BIEX 8021B	mg/	/ Kg	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	646	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	890	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.2	% 376-14	7						

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 9 WALL (H802017-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	< 0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142							
Surrogate: 1-Chlorooctadecane	90.0	% 37.6-14	7						

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 07/30/2018

Project Name: **BLACK RIVER FEDERAL #1** 

Project Number: NONE GIVEN

Project Location: CHISHOLM ENERGY - EDDY CO NM Sampling Date: 07/19/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: SP 10 WALL (H802017-10)

Reported:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/20/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 11 WALL (H802017-11)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	20.5	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.0	% 37.6-14	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: BF

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 12 WALL (H802017-12)

BTEX 8021B

BIEX 8021B	mg/	kg	Anaiyze	а ву: вг					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	94.7 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	86.3 %	6 37.6-14	7						

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07/20/2018

Soil



# Analytical Results For:

Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: Reported: 07/30/2018 Sampling Type:

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 13 WALL (H802017-13)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: BE

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 14 WALL (H802017-14)

RTFY 8021R

BIEX 8021B	mg/	kg	Anaiyze	а ву: вг					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	< 0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/27/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	107 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	98.3 9	6 37.6-14	7						

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: **BLACK RIVER FEDERAL #1** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: SP 15 WALL (H802017-15)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/27/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	1470	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	1120	10.0	07/26/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 07/24/2018 Sampling Date: 07/19/2018

Reported: 07/30/2018 Sampling Type: Soil

Project Name: BLACK RIVER FEDERAL #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CHISHOLM ENERGY - EDDY CO NM

### Sample ID: BACKGROUND (H802017-16)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.92	

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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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Name: Basin Environmental Service Technologies, LLC

Company Name:	Basin Environmental Service Technologies, LLC	gie.	Ş,	0									778	8/11/70				ANALYSIS REQUEST
Project Manager:									70	P.O. #:	#							
Address: P.O.	P.O. Box 301								0	S I	Company:	<u>ب</u> ا ب	OB	basin				
City: Lovington	State: NM	Zip:		88260	09				D	Attn:		200						
Phone #: (575	(575)396-2378 <b>Fax #</b> : (575)396-1429	6-14	29						Þ	ddr	Address:	92						
Project #:	Project Owner:		Ω	Chisholm Energy	함	Ш	ner	gy	0	City:							)	
Project Name:	Black River Federal #1								w	State:	¥.	Z Z		Zip: 88260	е	5M)	21B)	
Project Location:	Eddy								ס	ρ	Phone #:				orid	801	(802	
Sampler Name:	Stoney Collins								П	Fax #:	**				Chl	Ή (	EX	
FOR LAB USE ONLY		٥.				₹	MATRIX	∃≅I	+	+	ᇛ	PRESERV	<u> </u>	SAMPLING	á	TP	вт	
Lab I.D. H%02017	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:		ICE / COOL	OTHER:	DATE TIME				
-	SP1 Floor @ 1'	9		Н		×				$\vdash$	100000	×		7/19/18 11:00	×	×	×	
72	SP2 Floor @ 1'	g	_			×						×		7/19/18 11:05	×	×	×	
	SP3 Floor @ 2'	ည				×						×		7/20/18 9:00	×	×	×	
	SP4 Floor @ 1'	g	_			×	-					×		7/19/18 11:10	×	×	×	
C	SP5 Wall	g	_			×						×		7/19/18 11:15	×	×	×	
	SP6 Wall	g	_		311111	×				-		×		7/19/18 11:20	×	×	×	
4	SP7 Wall	9	_			×						×		7/19/18 11:25	×	×	×	
	SP8 Wall	g	_			×						×		7/19/18 11:30	×	×	×	
2	SP9 Wall	ω <sup>,</sup>	_			×						×		7/19/18 11:35	×	×	×	
Ö	SP10 Wall	g	7			×	-			H		×		7/19/18 11:40	×	×	×	
PLEASE NOTE: Liability and	PLEASE NOTE: Liability and Danages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	im aris	ing wh	ether	based	in co	ntract	or ton	shall	be lin	nited t	to the	amou	nt paid by the client for the				

	DELACION IN CONTRACT DATE OF THE LOCAL SPECIAL CONTRACT C	TO COLOR PRINCE.
Relinquished By:	Date: / Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	72718	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Lory Oran	Time: OND	REMARKS:
Relinquished By:	Date 1 Regeived By:	
m I	The control sher sor	
Deliwered By: (Circle One)	Sample Condition CHECKED BY:	- rease citian results to print beasing in its scott
Sampler - UPS - Bus - Other:	O.40 Cool Intact (Initials)	
•	10:00	

FORM-006 Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Technologies, LLC	logie	, L	5									8	BILL TO					≥	ANALYSIS		REQUEST	ŨE:	~ 				
Project Manager:	: Robbie Runnels									P.O.	#				$\dashv$	$\dashv$	4	$\perp$	$\perp$	_						$\dashv$	4	
Address: P.O	P.O. Box 301									ဝို	렸ㅣ	Company:																
City: Lovington	State: NM	Zip:		88260	260					Attn:	=																	
Phone #: (575	(575)396-2378 <b>Fax #:</b> (575)396-1429	96-1	429							Address:	lres	š:																
Project #:	Project Owner:		O	Chisholm Energy	hol	3	ne	гgy		City:								)										
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Sampler Name:	Stoney Collins								_	Fax #:	*				СЫ		18	EX										
FOR LAB USE ONLY			·	-	-	3	MATRIX	Ĩ			묎	PRESERV	.P.	SAMPLING				ВТ										
Lab I.D. H802017	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER		SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TII	TIME													
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□ Yes

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