

TABLE 1  
LABORATORY RESULTS SUMMARY TABLE  
YCF 3-45-1  
RIO BLANCO COUNTY, COLORADO  
XTO ENERGY, INC

PARAMETER	COGCC SOIL CONCENTRATION LEVELS	UNITS	EXCAVATION BOTTOM						BACKGROUND ARSENIC SAMPLES						MAXIMUM ALLOWABLE BASED ON BACKGROUND
			PW Spill Bottom #1 (10')	Bottom #1 @ 14'	Bottom #1 @ 18'	PW Spill Bottom #2 (10')	Bottom #2 @ 14'	Bottom #2 @ 18'	#1	#2	#3	#4	#5	#6	
			19092031	19101949	19110818	19092031	19101949	19110818	19120991						
Sample Date			9/27/2019	10/22/2019	11/8/2019	9/27/2019	10/22/2019	11/8/2019	12/12/2019						
Arsenic	0.39	mg/kg	6.2	NA	4.3	10	NA	4.5	6.8	6.3	4.8	4.8	2.9	4.7	7.48
Barium	15,000	mg/kg	520	NA	140	220	NA	160	NA	NA	NA	NA	NA	NA	-
Cadmium	70	mg/kg	0.062	NA	ND	0.16	NA	ND	NA	NA	NA	NA	NA	NA	-
Chromium (III)	120,000	mg/kg	55	NA	87	73	NA	83	NA	NA	NA	NA	NA	NA	-
Chromium (VI)	23	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Copper	3,100	mg/kg	13	NA	11	25	NA	11	NA	NA	NA	NA	NA	NA	-
Lead	400	mg/kg	14	NA	11	13	NA	11	NA	NA	NA	NA	NA	NA	-
Mercury	23	mg/kg	0.040	NA	0.021	0.043	NA	0.022	NA	NA	NA	NA	NA	NA	-
Nickel	1,600	mg/kg	36	NA	36	70	NA	37	NA	NA	NA	NA	NA	NA	-
Selenium	390	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Silver	390	mg/kg	ND	NA	0.065	ND	NA	0.083	NA	NA	NA	NA	NA	NA	-
Zinc	23,000	mg/kg	62	NA	53	67	NA	54	NA	NA	NA	NA	NA	NA	-
EC	4.0	mmhos/cm	9.6	NA	2.2	7.8	NA	1.3	NA	NA	NA	NA	NA	NA	-
pH	6 - 9	SU	9.43	NA	8.31	7.65	NA	8.66	NA	NA	NA	NA	NA	NA	-
SAR	12	unitless	19	NA	8.3	8.0	NA	11	NA	NA	NA	NA	NA	NA	-
TPH-GRO		mg/kg	650	700	71	1,100	400	67	NA	NA	NA	NA	NA	NA	-
TPH-DRO		mg/kg	3,200	1,300	50	1,700	790	99	NA	NA	NA	NA	NA	NA	-
TPH	500	mg/kg	3,850	2,000	121	2,800	1,190	166	NA	NA	NA	NA	NA	NA	-
Benzene	0.17	mg/kg	0.13	NA	ND	0.14	NA	ND	NA	NA	NA	NA	NA	NA	-
Toluene	85	mg/kg	3.7	NA	ND	15	NA	ND	NA	NA	NA	NA	NA	NA	-
Ethylbenzene	100	mg/kg	1.9	NA	ND	2.4	NA	ND	NA	NA	NA	NA	NA	NA	-
Total Xylenes	175	mg/kg	74	NA	ND	160	NA	0.09	NA	NA	NA	NA	NA	NA	-
Acenaphthene	1000	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Anthracene	1000	mg/kg	ND	NA	ND	0.027	NA	ND	NA	NA	NA	NA	NA	NA	-
Benzo(A)anthracene	0.22	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Benzo(B)fluoranthene	0.22	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Benzo(K)fluoranthene	2.2	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Benzo(A)pyrene	0.022	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Chrysene	22	mg/kg	0.0091	NA	ND	0.012	NA	ND	NA	NA	NA	NA	NA	NA	-
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Fluoranthene	1000	mg/kg	0.0066	NA	ND	0.0054	NA	ND	NA	NA	NA	NA	NA	NA	-
Fluorene	1000	mg/kg	0.48	NA	0.055	0.92	NA	0.1	NA	NA	NA	NA	NA	NA	-
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	-
Naphthalene	23	mg/kg	2.5	NA	ND	6.6	NA	0.1	NA	NA	NA	NA	NA	NA	-
Pyrene	1000	mg/kg	0.0099	NA	ND	0.013	NA	ND	NA	NA	NA	NA	NA	NA	-

NOTES:  
ND - analyte not detected above the stated reporting limit  
NA - not analyzed  
BOLD - indicates result exceeds the COGCC concentration level  
BOLD - indicates result is below approved background concentration  
COGCC - Colorado Oil and Gas Conservation Commission  
EC- electrical conductivity  
SAR - sodium adsorption ratio



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PARAMETER	COGCC SOIL CONCENTRATION LEVELS	UNITS	EXCAVATION SIDEWALLS								ADDITIONAL SAMPLING		
			PW Spill N. Sidewall	PW Spill S. Sidewall	S. Sidewall @10'	PW Spill E. Sidewall	E. Sidewall @10'	#3 East Wall @ 14'	PW Spill W. Sidewall	W. Sidewall @ 10'	Access Rd. #7	Access Rd. #8	Sed Trap #6
			19092031	19092031	19101949	19092031	19101949	19110818	19092031	19101949	19101949	19101949	19101949
Sample Date			9/27/2019	9/27/2019	10/22/2019	9/27/2019	10/22/2019	11/8/2019	9/27/2019	10/22/2019	10/22/2019	10/22/2019	10/22/2019
Arsenic	0.39	mg/kg	2.1	11	NA	12	NA	4.6	2.1	NA	5.4	3.9	3.5
Barium	15,000	mg/kg	140	320	NA	320	NA	300	520	NA	210	200	210
Cadmium	70	mg/kg	ND	0.057	NA	0.078	NA	0.096	0.17	NA	ND	0.043	0.12
Chromium (III)	120,000	mg/kg	25	39	NA	40	NA	22	29	NA	42	35	37
Chromium (VI)	23	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Copper	3,100	mg/kg	15	12	NA	15	NA	11	29	NA	8.2	6.2	13
Lead	400	mg/kg	11	15	NA	15	NA	10	15	NA	12	7.8	12
Mercury	23	mg/kg	0.030	0.015	NA	0.039	NA	0.024	0.062	NA	0.013	0.014	0.014
Nickel	1,600	mg/kg	22	28	NA	25	NA	15	29	NA	19	14	18
Selenium	390	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Silver	390	mg/kg	ND	ND	NA	ND	NA	0.066	ND	NA	ND	ND	ND
Zinc	23,000	mg/kg	58	55	NA	57	NA	36	60	NA	42	32	48
EC	4.0	mmhos/cm	1.9	11	NA	5.3	NA	5.0	7.4	NA	1.9	2.1	1.3
pH	6 - 9	SU	8.78	8.32	NA	8.61	NA	8.31	8.78	NA	9.35	9.20	8.47
SAR	12	unitless	11	9.8	NA	8.7	NA	6.4	7.6	NA	13	14	3.8
TPH-GRO		mg/kg	ND	430	ND	2,600	23	7.4	560	81	ND	ND	ND
TPH-DRO		mg/kg	4.6	87	38	630	670	25	3,300	410	30	180	16
TPH	500	mg/kg	4.6	517	38	3,230	693	32.4	3,860	491	30	180	16
Benzene	0.17	mg/kg	ND	0.0082	NA	1.3	ND	ND	ND	NA	ND	ND	ND
Toluene	85	mg/kg	ND	0.91	NA	80	ND	ND	0.13	NA	ND	ND	ND
Ethylbenzene	100	mg/kg	0.016	0.71	NA	8.3	ND	ND	0.021	NA	ND	ND	ND
Total Xylenes	175	mg/kg	ND	39	NA	580	ND	ND	47	NA	ND	ND	ND
Acenaphthene	1000	mg/kg	ND	0.0081	NA	ND	NA	ND	0.15	NA	ND	ND	ND
Anthracene	1000	mg/kg	ND	ND	NA	0.03	NA	ND	ND	NA	ND	ND	ND
Benzo(A)anthracene	0.22	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Benzo(B)fluoranthene	0.22	mg/kg	ND	ND	NA	ND	NA	ND	0.0047	NA	ND	ND	ND
Benzo(K)fluoranthene	2.2	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Benzo(A)pyrene	0.022	mg/kg	ND	ND	NA	ND	NA	ND	0.0035	NA	ND	ND	ND
Chrysene	22	mg/kg	ND	ND	NA	0.014	NA	ND	0.031	NA	ND	ND	ND
Dibenzo(A,H)anthracene	0.022	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Fluoranthene	1000	mg/kg	ND	ND	NA	0.0087	NA	ND	0.022	NA	ND	ND	ND
Fluorene	1000	mg/kg	ND	0.13	NA	0.84	NA	0.0032	1.7	NA	0.019	0.041	ND
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND
Naphthalene	23	mg/kg	ND	0.51	NA	7.3	NA	ND	4.5	NA	ND	ND	ND
Pyrene	1000	mg/kg	ND	ND	NA	0.014	NA	ND	0.026	NA	ND	ND	ND

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