

Suckla-Brown Unit 17 Header - Soil Analytical Table

Soil to Groundwater						benzene	toluene	ethylbenzene	Xylenes (total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	naphthalene
COGCC Table 915-1 Concentration Levels						0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	benzene	toluene	ethylbenzene	Xylenes (total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	naphthalene
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111							
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781	ND	ND	ND	ND	ND	ND	ND
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND	ND	ND	ND
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND	ND	ND	ND
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND	ND	ND	ND
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND	ND	ND	ND
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214	ND	ND	ND	ND	ND	ND	ND
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	ND	ND	ND
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	ND	ND	ND
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	1.6	0.017	4.1	38	13	8.4	0.98
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	ND	ND	ND	ND	ND
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	ND	ND	ND	ND	0.005	ND	0.029
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	ND	ND	ND	ND	ND	ND	ND
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	ND	ND	ND	ND	ND	ND	ND

Notes:
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Suckla-Brown Unit 17 Header - Soil Analytica

Soil to Groundwater						ene	Gasoline Range Hydrocarbons	C10-C28 (DRO)	C28-C36 (ORO)	TPH (Calculated)	acenaphthene	anthracene	benzo(a)anthracene
COGCC Table 915-1 Concentration Levels						NL	NL	NL	500	0.55	5.8	0.011	
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	Gasoline Range Hydrocarbons	C10-C28 (DRO)	C28-C36 (ORO)	TPH (Calculated)	acenaphthene	anthracene	benzo(a)anthracene	
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111								
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781	ND	ND	ND		ND	ND	ND	
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND		ND	ND	ND	
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND		ND	ND	ND	
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND		ND	ND	ND	
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND		ND	ND	ND	
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214	ND	ND	ND		ND	ND	ND	
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND		ND	ND	ND	
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND		ND	ND	ND	
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	520	120	ND	640	ND	ND	ND	
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	ND		ND	ND	ND	
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	0.53	120	ND	120.53	ND	ND	ND	
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	0.59	230	ND	230.59	ND	0.0115	0.01	
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	ND	ND	ND		ND	ND	ND	

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Suckla-Brown Unit 17 Header - Soil Analytica

Soil to Groundwater						acene	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	dibenzo(a,h)anthracene	fluoranthene	fluorene
						0.24	0.3	2.9	9	0.096	8.9	0.54	
COGCC Table 915-1 Concentration Levels						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	benzo(a)pyrene	benzo(b)fluoranthene	benzo(k)fluoranthene	chrysene	dibenzo(a,h)anthracene	fluoranthene	fluorene	
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111								
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781	ND	ND	ND	ND	ND	ND	ND	
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND	ND	ND	ND	
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND	ND	ND	ND	
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND	ND	ND	ND	
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND	ND	ND	ND	
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214	ND	ND	ND	ND	ND	ND	ND	
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	ND	ND	ND	
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	ND	ND	ND	
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	ND	0.0193	ND	ND	0.0732	
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	ND	ND	ND	ND	0.00777	
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	ND	ND	ND	0.0163	ND	ND	0.0519	
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	ND	0.00613	ND	0.013	ND	0.0288	0.0265	
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	ND	ND	ND	ND	ND	ND	ND	

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Soil to Groundwater						indeno(1,2,3-cd)pyrene	pyrene	1-methylnaphthalene	2-methylnaphthalene	Boron	arsenic	barium	cadmium	copper
COGCC Table 915-1 Concentration Levels						0.98	1.3	0.006	0.019	2	0.29	82	0.38	46
Units						mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	indeno(1,2,3-cd)pyrene	pyrene	1-methylnaphthalene	2-methylnaphthalene	Boron	arsenic	barium	cadmium	copper
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111					0.511	5.92	159	ND	13.2
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781	ND	ND	ND	ND		7.07	153	0.333	16
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND		6.22	159	0.31	20.7
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND		7.53	133	0.365	17.5
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781	ND	ND	ND	ND		12.7	135	0.485	21.3
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781	ND	ND	ND	ND		8.27	140	0.374	19.2
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214	ND	ND	ND	ND		7.02	200	0.358	16.9
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	0.258	4.18	39.4	ND	6.19
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	ND	ND	ND	ND	0.299	3.88	30.1	ND	8.67
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	1.69	4.92	1.12	5.68	174	ND	14.8
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	ND	ND	ND	ND	0.489	11.2	25	ND	17.2
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	ND	ND	0.147	0.288	0.71	5.84	194	0.257	10.3
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	ND	0.0167	0.0837	ND	0.683	3.63	132	ND	13.1
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	ND	ND	ND	ND	0.866	7.82	26.6	ND	10.2

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						Soil to Groundwater										
						lead	nickel	selenium	silver	zinc	chromium (Hexavalent)	Calcium	Magnesium	Sodium	Sodium Adsorptir	% Sol'
COGCC Table 915-1 Concentration Levels						14	26	0.26	0.8	370	0.00067	NL	NL	NL	6	NL
Units						mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry	mg/L dry	mg/L dry	mg/L dry	Units	%
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	lead	nickel	selenium	silver	zinc	chromium (Hexavalent)	Calcium	Magnesium	Sodium	SAR	% Solids
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111	13.2	13	1.22	0.0639	46.4	ND	97.9	56.4	109	2.17	79.7
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781	13.7	17.5	1.33	0.0678	68.4	ND					88.3
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781	12.5	17.9	1.4	0.0596	68.1	ND					88.6
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781	13.5	19.7	1.43	0.053	78.1	ND					88.4
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781	15.1	23.3	1.62	0.0551	95.1	ND					88.4
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781	13.9	21	1.55	0.0566	83.1	ND					88
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214	12.6	19.5	1.36	0.049	73.6	ND					88
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	6.37	6.76	0.607	ND	24.7	ND	52.6	38.5	92.9	2.37	87.5
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	8.09	9.31	0.814	ND	33.8	ND	30.4	20.6	89.5	3.07	88.3
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	11.2	16.4	1.29	0.0438	54.1	ND	12.4	10.4	380	19.3	75.9
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	13.7	9.29	1.19	0.0328	51.1	ND	111	103	901	14.8	82
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	7.78	13.8	0.792	0.0345	35	ND	16.1	17.7	253	10.4	82.8
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	10.7	10.7	1.25	0.0378	45.8	ND	450	147	970	10.2	84
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	9.48	11.2	0.888	0.0244	37.1	ND	332	215	1290	13.6	85.5

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Suckla-Brown Unit 17 Header - Soil Analytica

						Soil to Groundwater	Units	Specific Conductance /	pH
						COGCC Table 915-1 Concentration Levels	4	6 to 8.3	
						Units	mmhos/cm	pH units	
Sample	Lab Sample ID	Sample Date	Background	Latitude	Longitude	EC	pH		
Background-2@6-10'	2209570-08	9/28/2022	TRUE	40.78120	-106.24111	1.25	7.58		
#1-North	2103223-01	3/9/2021	FALSE	40.06526	-104.8781				
#2-West	2103223-02	3/9/2021	FALSE	40.06523	-104.8781				
#3-South	2103223-03	3/9/2021	FALSE	40.06524	-104.8781				
#4-South	2103223-04	3/9/2021	FALSE	40.06523	-104.8781				
#5-Bottom	2103223-05	3/9/2021	FALSE	40.06524	-104.8781				
Outside South Barrier	2103223-06	3/9/2021	FALSE	40.065024	-104.878214				
SB-1@10'	2209570-01	9/28/2022	FALSE	40.065259	-104.877982	0.866	7.38		
SB-1@15'	2209570-02	9/28/2022	FALSE	40.065259	-104.877982	0.675	7.36		
SB-2@7.5'	2209570-03	9/28/2022	FALSE	40.065043	-104.878134	1.38	8.74		
SB-2@15'	2209570-04	9/28/2022	FALSE	40.065043	-104.878134	4.06	7.38		
SB-3@6'	2209570-05	9/28/2022	FALSE	40.065273	-104.87825	1.18	8.13		
SB-4@7.5'	2209570-06	9/28/2022	FALSE	40.065354	-104.878115	5.2	7.48		
SB-4@15'	2209570-07	9/28/2022	FALSE	40.065354	-104.878115	6.58	7.29		

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