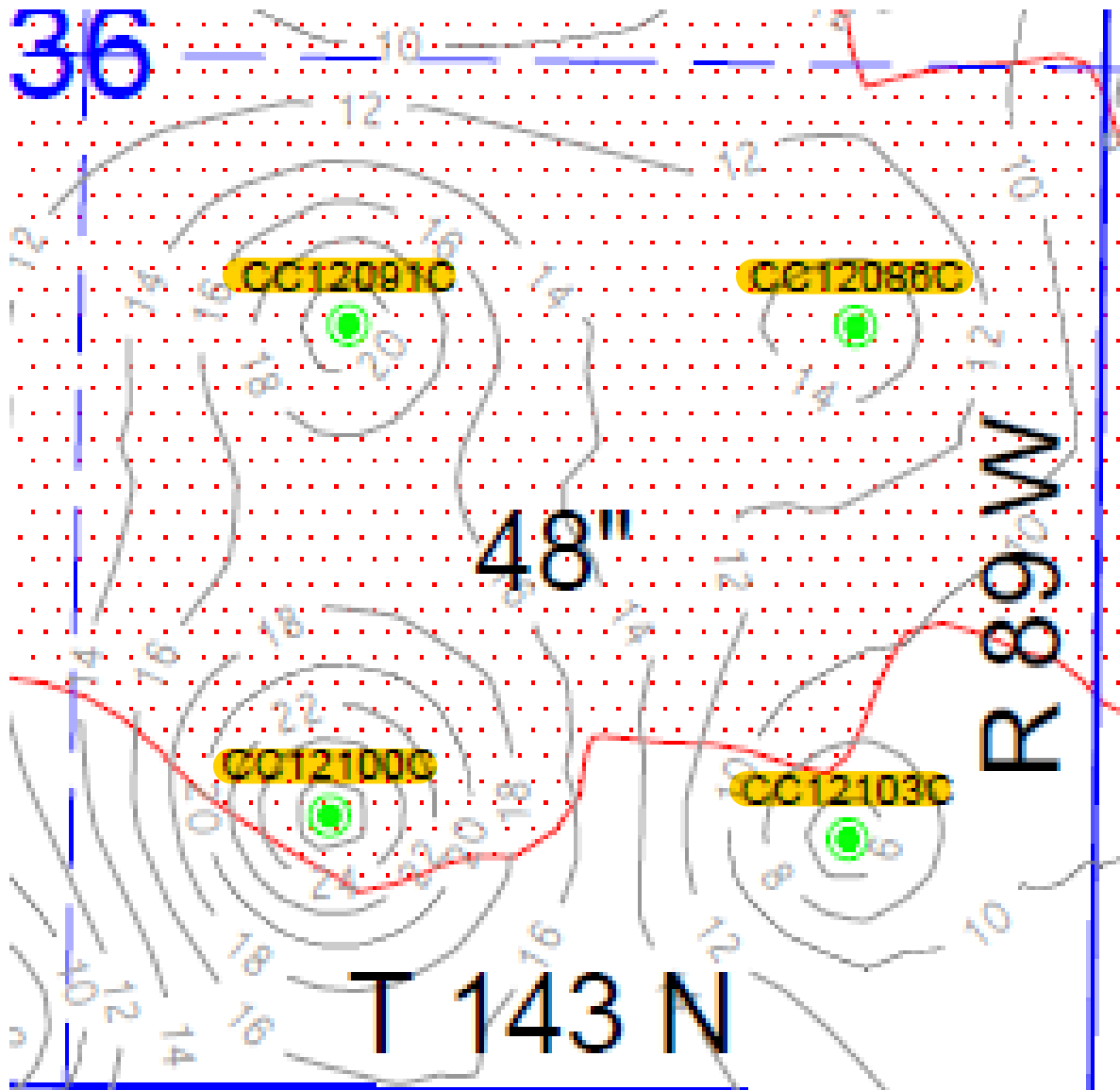


Casey and Julie Voigt v. Coyote Creek Mining Company, LLC

Case No. RC-23-348

COY-038 OB Sample Analyses

**Voigt Exhibit 23**





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Coyote Creek  
204 County Rd 15  
Beulah, ND 58523

Date Sampled: 08/13/12  
Date Received: 08/07/12  
Date Reported: 01/24/13

Site: CC12091C

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14378351	49501	0-5	2.58	12.14	1.6	5.7	24.0	12.55	8.4	CLAY LOAM	44	23	33	64.6
14378352	49502	5-10	8.20	17.29	24.7	47.1	70.1	11.70	8.1	CLAY LOAM	35	26	39	84.4
14378353	49503	10-15	5.15	13.89	9.6	15.6	46.4	13.09	8.1	CLAY	30	29	41	79.8
14378354	49504	15-20	2.70	11.93	3.2	3.4	25.6	14.01	8.2	CLAY	28	29	43	88.6
14378355	49505	20-25	3.53	12.04	6.4	6.1	30.0	12.01	8.1	CLAY	20	29	51	86.1
14378356	49506	25-30	2.37	10.47	2.8	2.8	19.2	11.51	8.2	CLAY	8	31	61	113.9
14378357	49507	30-35	2.46	10.05	1.9	1.6	21.3	16.21	8.5	CLAY	8	35	57	114.2
14378358	49508	35-40	2.35	10.26	1.3	1.0	21.8	20.40	8.4	CLAY	6	35	59	105.0
14378359	49509	40-45	2.32	9.94	0.7	0.6	21.8	27.35	8.3	CLAY	4	11	85	129.2
14378360	49510	45-50	2.81	11.00	1.2	1.0	28.8	27.89	7.6	CLAY	8	33	59	83.4
14378361	49511	50-55	2.55	10.08	0.6	0.4	24.8	36.47	8.4	CLAY	2	17	81	105.8
14378362	49512	55-60	2.34	10.38	0.4	0.3	23.6	39.91	8.5	CLAY	0	19	81	113.5
14378363	49513	60-65	2.27	10.07	0.4	0.2	22.3	41.42	8.8	SILTY CLAY	8	41	51	133.0
14378364	49514	65-70	2.82	10.48	0.6	0.4	28.5	40.43	8.7	LOAM	42	33	25	68.8
14378365	49515	70-75	2.70	11.27	0.5	0.4	29.6	44.54	8.4	CLAY	4	33	63	110.5
14378366	49516	75-80	2.04	10.68	0.3	0.3	21.3	41.14	8.7	SILTY CLAY	14	41	45	121.1
14378367	49517	80-85	1.88	11.44	0.6	0.5	20.4	27.39	8.5	CLAY	6	35	59	111.8
14378368	49518	85-90	1.74	11.23	0.5	0.3	18.7	29.39	8.4	SILTY CLAY	10	47	43	108.8
14378369	49519	90-95	1.87	9.55	0.6	0.5	16.7	22.19	8.6	SILTY CLAY	6	47	47	115.2
14378370	49520	95-100	1.97	9.65	0.7	0.4	17.9	24.62	8.5	SILTY CLAY	10	47	43	122.5
14378371	49521	100-105	1.46	11.20	0.4	0.4	15.6	24.53	8.8	SILTY CLAY LOAM	14	49	37	130.1
14378372	49522	105-110	1.85	10.26	0.2	0.2	18.6	43.22	8.9	CLAY	11	34	55	123.6
14378373	49523	110-115	1.88	10.49	0.3	0.2	19.3	41.15	8.9	CLAY	8	37	55	141.3
14378374	49524	115-120	2.27	9.06	0.2	0.2	20.2	44.20	8.9	CLAY	10	29	61	144.7
14378375	49525	120-125	2.17	11.60	0.3	0.2	24.6	47.45	8.6	SILTY CLAY	8	47	45	128.6

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14378376	49526	125-130	1.48	11.15	0.3	0.2	16.0	31.32	8.8	SILTY CLAY	8	47	45	138.1
14378377	49527	130-135	1.78	10.55	0.4	0.4	18.1	29.92	8.6	CLAY	4	35	61	122.3
14378378	49528	135-136.2	2.34	12.25	0.9	0.6	27.2	31.56	7.6	CLAY	34	19	47	93.2
14378379	49529	147.95-152.95	1.85	10.03	0.5	0.4	17.6	25.85	7.5	CLAY	14	17	69	122.4



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Coyote Creek  
 204 County Rd 15  
 Beulah, ND 58523

Date Sampled: 08/13/12  
 Date Received: 08/07/12  
 Date Reported: 01/21/13

Site: CC12086C

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14378111	49367	0-5	1.00	10.65	2.2	2.9	5.5	3.44	7.80	CLAY LOAM	44	23	33	48.3
14378112	49368	5-10	5.10	18.07	23.8	35.1	33.3	6.13	7.90	CLAY LOAM	41	24	35	62.2
14378113	49369	10-15	5.43	14.39	16.7	24.2	37.3	8.26	7.90	CLAY LOAM	37	24	39	68.0
14378114	49370	15-20	3.44	12.11	7.1	9.0	25.5	8.99	7.90	CLAY	16	17	67	99.3
14378115	49371	20-25	4.36	12.59	8.1	13.2	33.6	10.29	7.30	CLAY	24	31	45	75.2
14378116	49372	25-30	7.40	15.34	23.5	33.8	56.3	10.51	6.80	CLAY	16	35	49	80.0
14378117	49373	30-35	3.88	10.87	2.3	5.0	34.9	18.26	8.20	CLAY	18	39	43	108.8
14378118	49374	35-40	4.05	10.67	1.8	3.5	37.9	23.33	8.57	SILTY CLAY LOAM	14	47	39	101.0
14378119	49375	40-45	2.91	11.27	1.2	1.8	29.8	24.17	8.40	CLAY LOAM	23	44	33	102.0
14378120	49376	45-50	3.26	10.51	1.7	2.2	30.4	21.77	8.40	LOAM	35	38	27	81.4
14378121	49377	50-55	1.57	10.25	0.4	0.4	15.2	22.98	8.70	CLAY LOAM	27	44	29	112.0
14378122	49378	55-60	1.78	10.50	0.6	0.4	17.7	24.48	9.00	CLAY	12	37	51	129.5
14378123	49379	60-65	2.11	9.37	0.4	0.4	19.0	31.64	8.86	CLAY LOAM	21	42	37	101.3
14378124	49380	65-70	2.12	10.51	0.5	0.4	21.4	32.49	8.40	SILTY CLAY LOAM	19	44	37	119.8
14378125	49381	70-75	1.74	8.93	0.3	0.2	15.1	33.16	8.80	CLAY	27	32	41	110.9
14378126	49382	75-80	0.96	10.61	0.2	0.2	9.7	19.84	9.40	CLAY LOAM	25	40	35	143.8
14378127	49383	80-85	1.18	10.16	0.3	0.2	11.5	24.17	9.11	CLAY LOAM	20	49	31	128.4
14378128	49384	85-90	1.20	10.54	0.3	0.2	12.2	24.80	8.80	SILTY CLAY LOAM	19	46	35	135.1
14378129	49385	90-95	1.27	10.73	0.3	0.2	13.1	26.79	8.80	SILTY CLAY LOAM	17	48	35	133.1
14378130	49386	95-100	1.30	9.19	0.1	0.1	11.7	33.18	9.31	CLAY LOAM	26	41	33	146.3
14378131	49387	100-105	1.38	10.99	0.3	0.3	14.6	26.73	9.05	SILTY CLAY LOAM	17	46	37	123.2
14378132	49388	105-110	1.48	9.21	0.3	0.2	13.1	25.98	8.70	SILTY CLAY	7	50	43	122.9
14378133	49389	110-115	1.43	11.07	0.4	0.3	15.2	26.09	8.72	CLAY	5	20	75	128.8
14378134	49390	115-119.15	1.87	11.08	0.5	0.4	19.9	30.06	7.89	CLAY	35	12	53	106.8
14378135	49391	129.3-134.3	3.68	11.84	1.0	0.8	41.7	43.11	8.50	CLAY	31	28	41	117.4



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Coyote Creek  
 204 County Rd 15  
 Beulah, ND 58523

Date Sampled: 08/16/12  
 Date Received: 08/20/13 & 08/27/13  
 Date Reported: 02/05/13

Site: CC12100C

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14378171	49556	0-5	2.01	12.46	5.4	8.8	10.9	4.12	7.87	SANDY CLAY LOAM	53	21	26	46.2
14378172	49557	5-10	4.88	14.99	21.3	33.1	18.7	3.58	7.78	SANDY CLAY LOAM	55	23	22	55.2
14378173	49558	10-15	6.44	17.63	25.3	59.8	28.4	4.36	7.66	LOAM	33	41	26	65.1
14378174	49559	15-20	6.39	17.73	25.0	60.8	27.5	4.21	7.45	LOAM	47	29	24	58.5
14378175	49560	20-25	5.44	15.39	21.7	45.6	16.4	2.84	7.51	LOAM	33	41	26	66.6
14378176	49561	25-30	5.45	15.54	24.5	44.9	15.3	2.60	6.50	CLAY	20	39	41	67.8
14378177	49562	30-35	5.30	17.41	23.5	46.1	22.7	3.85	4.10	CLAY LOAM	42	27	31	79.6
14378178	49563	35-40	4.13	13.4	15.1	15.7	24.5	6.25	6.60	CLAY	22	25	53	86.8
14378179	49564	40-45	3.36	11.68	8.3	6.0	24.9	9.30	7.70	CLAY	16	29	55	93.7
14378180	49565	45-50	4.88	13.26	17.9	14.0	32.9	8.25	7.40	CLAY	24	29	47	83.9
14378181	49566	50-55	3.13	9.50	1.7	1.0	26.9	22.85	8.30	CLAY	20	27	53	102.5
14378182	49567	55-60	2.55	10.29	0.8	0.5	25.0	31.36	8.41	CLAY	11	13	76	144.9
14378183	49568	60-65	3.18	11.08	0.9	0.8	33.5	35.70	7.91	CLAY	11	25	64	95.5
14378184	49569	65-70	2.75	10.92	0.6	0.5	28.9	38.96	8.37	CLAY	3	21	76	109.2
14378185	49570	70-75	2.87	9.75	0.5	0.4	27.1	40.75	8.43	CLAY	5	17	78	127.9
14378186	49571	75-80	2.73	10.71	0.6	0.4	28.3	40.25	8.32	CLAY LOAM	23	38	39	114.1
14378187	49572	80-85	1.64	9.89	0.4	0.3	15.5	26.03	9.04	SILTY CLAY	11	44	45	172.9
14378188	49573	85-90	1.91	9.74	0.3	0.2	18.1	34.48	8.98	CLAY	19	34	47	153.8
14380791	55311	90-95	1.45	10.52	0.2	0.2	14.8	31.77	9.03	CLAY	9	25	66	225.1
14380792	55321	95-100	2.30	8.11	0.4	0.5	17.8	26.71	8.65	CLAY	7	17	76	145.8
14380793	55322	100-105	2.21	11.13	0.3	0.2	24.1	47.89	8.49	CLAY	9	11	80	173.0
14380794	55323	105-107.2	2.45	10.84	0.5	0.5	25.6	37.15	8.05	CLAY	17	29	54	137.0
14380795	55327	109-115	1.57	10.39	0.4	0.2	15.7	28.24	8.71	CLAY	15	31	54	144.6
14380796	55329	115-120	2.55	11.35	0.4	0.3	28.2	46.60	8.23	CLAY	19	23	58	126.9
14380797	55330	120-125	3.25	8.67	0.5	0.4	27.3	40.00	8.57	CLAY	22	33	45	116.0

Agricultural Testing

Voigt-006

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14380798	55331	125-130	2.33	10.22	0.4	0.3	23.1	37.94	8.82	CLAY	14	29	57	122.4
14380799	55332	130-135	2.52	10.21	0.3	0.2	25.2	48.62	8.36	CLAY	21	33	46	125.0
14380800	55333	135-140	2.97	10.82	0.7	0.6	30.9	39.46	8.23	CLAY	17	39	44	133.3
14380801	55334	140-145	1.48	11.37	0.3	0.3	16.1	27.42	8.73	SILTY CLAY	9	45	46	148.7
14380802	55335	145-151	2.48	10.50	0.3	0.3	25.5	48.45	8.59	CLAY	9	29	62	133.6
14380803	55336	162.95-167.95	1.50	10.72	0.5	0.3	15.3	24.34	8.04	SILTY CLAY	15	43	42	98.9



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Coyote Creek  
 204 County Rd 15  
 Beulah, ND 58523

Date Sampled: 08/17/12  
 Date Received: 08/27/13  
 Date Reported: 02/01/13

Site: CC12103C

<u>Ref#</u>	<u>Lab#</u>	<u>Depth</u>	<u>EC</u>	<u>Cat/EC</u>	<u>Ca</u>	<u>Mg</u>	<u>Na</u>	<u>SAR</u>	<u>pH</u>	<u>Texture</u>	<u>Sand</u>	<u>Silt</u>	<u>Clay</u>	<u>Sat. Percent</u>
14378251	55656	0-5	2.40	9.70	4.5	4.5	14.2	6.70	7.92	CLAY	24	33	43	72.7
14378252	55657	5-10	6.15	17.65	12.4	18.3	77.9	19.88	8.21	CLAY	24	25	51	94.1
14378253	55658	10-15	2.50	9.84	0.8	1.0	22.8	23.77	8.59	CLAY LOAM	20	45	35	132.8
14378254	55659	15-20	2.86	10.07	0.6	0.6	27.6	34.75	8.48	CLAY	0	17	83	135.2
14378255	55660	20-25	4.22	10.90	1.8	1.6	42.7	33.10	7.52	CLAY	18	35	47	100.6
14378256	55661	25-30	2.68	8.76	0.5	0.4	22.6	35.32	8.71	CLAY	20	39	41	110.3
14378257	55662	30-35	2.05	10.60	0.4	0.3	21.0	35.04	8.90	CLAY	6	39	55	117.8
14378258	55663	35-40	1.59	10.14	0.2	0.2	15.6	31.71	8.82	CLAY	20	31	49	130.7
14378259	55664	40-45	1.22	9.75	0.2	0.3	11.3	21.54	8.92	CLAY LOAM	26	39	35	165.3
14378260	55665	45-50	3.95	12.34	0.9	1.0	46.9	48.15	8.78	CLAY	10	37	53	147.1
14378261	55666	50-55	1.15	10.15	0.3	0.4	11.0	18.91	8.46	CLAY LOAM	30	41	29	145.2
14378262	55667	55-60	1.30	10.02	0.2	0.3	12.5	23.59	9.11	CLAY LOAM	24	43	33	144.3
14378263	55668	60-65	1.45	10.69	0.3	0.3	14.9	27.13	9.18	LOAM	38	35	27	130.3
14378264	55669	65-70	1.46	10.55	0.5	0.3	14.7	23.95	8.78	SILTY CLAY	12	47	41	143.4
14378265	55670	70-75	1.85	8.21	0.4	0.3	14.5	24.08	8.91	SILTY CLAY	12	45	43	149.6
14378266	55671	75-80	1.92	9.74	0.3	0.3	18.1	33.39	8.66	CLAY	4	15	81	149.4
14378267	55672	80-82.3	1.95	11.66	0.5	0.4	21.9	34.06	8.00	CLAY	22	17	61	135.2
14378268	55673	94.2-99.2	3.04	9.89	0.7	0.5	28.8	36.83	7.27	CLAY	14	13	73	139.8