

**Thompson, Pamela J.**

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# Filing Accepted

Envelope Number: 5616544  
Case Number: 08-2024-CV-00694  
Case Style: Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.



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<b>Court</b>	Burleigh County
<b>Case Number</b>	08-2024-CV-00694
<b>Case Style</b>	Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.
<b>Date/Time Submitted</b>	4/9/2024 4:53 PM CST
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<b>Filing Type</b>	Exhibit
<b>Filing Description</b>	CR Exhibit 27 - Exhibit 10 - COY-035 OB Sample Analyses Spreadsheet
<b>Activity Requested</b>	EFileAndServe
<b>Filed By</b>	Pamela Thompson
<b>Filing Attorney</b>	John Schuh

Document Details	
<b>Lead Document</b>	CR Exhibit 27 - Exhibit 10 - COY-035 OB Sample Analyses Spreadsheet.pdf
<b>Lead Document Page Count</b>	11
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Casey and Julie Voigt v. Coyote Creek Mining Company, LLC

Case No. RC-23-348

COY-035 OB Sample Analyses Spreadsheet

[Placeholder] - Excel workbook in electronic format

**Voigt Exhibit 10**

<b>COY-035\OB Sample Analyses</b>	<b>Average Overburden SAR*</b>
<u>CC12101C</u>	9.98
<u>CC12120C</u>	29.17
<u>CC12121C</u>	25.40
<u>CC12122C</u>	18.39
<u>CC12123C</u>	24.87
<u>CC12125C</u>	23.05
<u>CC12127C</u>	33.16
<u>CC12129C</u>	28.42
<u>CC12143C</u>	31.55
<b>Total Average</b>	<b>24.89</b>

\*Average for values from surface to top of coal seam

<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>
14380841	55266	0-5	2.24	10.97	7.0	3.2	14.4	6.36	7.72	LOAMY SAND	81	11	8	30.4
14380842	55268	5-10	2.32	11.20	3.9	5.8	16.3	7.45	8.08	SANDY LOAM	73	13	14	53.0
14380843	55269	10-15	2.24	10.72	5.1	5.1	13.9	6.15	8.35	SANDY LOAM	65	17	18	51.4
14380844	55270	15-20	1.70	10.36	2.5	2.3	12.8	8.25	8.32	SANDY LOAM	69	13	18	49.5
14380845	55272	20-25	1.92	9.96	1.4	1.2	16.5	14.48	8.35	SANDY CLAY LOAM	45	15	40	82.6
14380846	55280	25-28.55	2.15	10.88	1.6	1.3	20.5	17.20	7.58	CLAY	33	15	52	96.8
14380847	55281	40.5-45.5	1.40	10.13	0.3	0.3	13.6	24.59	7.96	CLAY	13	11	76	162.2

**Overburden (Rows 2-7) average SAR: 9.98**

<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>
14355701	68598	0-5	3.18	9.62	1.3	3.5	25.8	16.73	8.48	CLAY LOAM	35	31	34	64.9
14355702	68599	5-10	8.55	14.77	20.9	31.7	73.6	14.35	8.19	CLAY LOAM	39	25	36	66.0
14355703	68600	10-15	8.11	16.20	21.3	27.7	82.4	16.64	8.07	SILTY CLAY	15	41	44	84.4
14355704	68602	15-20	3.59	11.04	2.6	4.2	32.9	17.86	8.42	CLAY LOAM	23	45	32	96.7
14355705	68603	20-25	1.82	10.05	0.7	0.9	16.7	18.35	8.64	LOAM	29	45	26	98.2
14355706	68604	25-30	2.18	10.11	0.5	0.7	20.9	27.07	8.64	SANDY CLAY LOAM	49	27	24	82.4
14355707	68606	30-35	4.62	10.28	3.0	2.5	41.9	25.17	7.02	CLAY LOAM	43	21	36	91.0
14355708	68607	35-40	3.02	9.03	0.7	0.6	26.0	32.10	8.09	CLAY	11	25	64	132.1
14355709	68608	40-45	1.99	10.48	0.5	0.4	20.0	31.21	8.81	CLAY LOAM	21	39	40	124.1
14355710	68609	45-50	3.07	10.70	0.7	0.6	31.5	38.99	8.08	CLAY	19	25	56	110.2
14355711	68611	50-55	1.62	9.87	0.2	0.2	15.6	34.45	9.05	CLAY	17	39	44	154.7
14355712	68612	55-60	2.09	10.41	0.5	0.3	21.0	33.43	8.78	SILTY CLAY LOAM	19	41	40	125.9
14355713	68613	60-65	2.51	9.02	0.2	0.2	22.2	47.76	8.86	CLAY LOAM	23	39	38	113.3
14355714	68615	65-70	2.85	10.53	0.5	0.4	29.0	41.32	8.79	CLAY	17	35	48	134.5
14355715	68616	70-75	2.27	9.75	0.6	0.4	21.1	29.20	8.68	CLAY	11	29	60	131.2
14355716	68617	75-76.9	2.41	11.06	0.4	0.3	25.9	42.04	7.80	CLAY	21	13	66	115.1
14355717	68618	87.7-92.7	3.02	10.51	0.5	0.4	30.8	43.98	7.90	CLAY	23	35	42	86.2

**Overburden (Rows 2-17) average SAR: 29.17**

<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>
14384261	68620	0-5	2.14	11.94	4.7	6.4	14.4	6.11	7.91	CLAY LOAM	39	29	32	50.3
14384262	68621	5-10	2.84	10.14	3.5	7.1	18.2	7.92	8.13	CLAY	31	27	42	80.1
14384263	68623	10-15	2.08	10.99	2.3	2.7	17.8	11.23	8.19	CLAY LOAM	43	29	28	61.9
14384264	68624	15-20	2.87	11.16	3.8	3.8	24.4	12.45	7.62	CLAY	11	13	76	101.9
14384265	68625	20-25	2.11	9.95	1.2	1.0	18.9	18.21	8.37	CLAY	17	31	52	111.7
14384266	68626	25-30	2.00	9.91	0.8	0.7	18.3	20.91	8.40	CLAY	13	33	54	128.1
14384267	68627	30-35	3.83	10.40	1.4	1.2	37.2	32.33	7.20	CLAY	43	13	44	115.3
14384268	68628	35-40	3.45	10.63	1.2	1.1	34.5	32.76	7.81	CLAY	19	17	64	121.9
14384269	68629	40-45	2.22	10.43	0.5	0.3	22.3	35.09	9.00	CLAY LOAM	23	43	34	127.8
14384270	68630	45-50	2.52	9.43	0.4	0.4	22.9	36.00	8.76	CLAY	7	19	74	139.6
14384271	68631	50-55	2.19	10.29	0.3	0.2	22.0	41.66	9.02	CLAY	13	25	62	138.8
14384272	68632	55-60	1.67	10.54	0.3	0.2	17.1	34.11	9.12	CLAY LOAM	27	43	30	134.8
14384273	68634	60-65	1.57	10.98	0.6	0.4	16.2	23.03	8.94	CLAY LOAM	33	37	30	123.4
14384274	68635	65-70	1.55	10.68	0.3	0.3	16.0	29.41	9.08	CLAY LOAM	27	41	32	127.4
14384275	68636	70-75	2.20	8.92	0.3	0.2	19.1	36.46	8.91	CLAY	17	35	48	129.9
14384276	68638	75-80.8	2.00	10.42	0.6	0.4	19.9	28.67	8.53	CLAY	17	19	64	124.8
14384277	68639	91.75-96.75	4.27	10.59	1.2	1.1	42.9	39.94	6.80	CLAY	19	15	66	110.3

**Overburden (Rows 2-17) Average SAR: 25.40**

<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>
14384121	68642	0-5	3.16	10.61	13.5	7.5	12.6	3.88	7.08	CLAY LOAM	37	35	28	50.2
14384122	68643	5-10	1.33	11.32	6.3	3.9	4.9	2.17	7.81	CLAY LOAM	43	23	34	51.5
14384123	68645	10-15	1.24	11.61	5.9	4.9	3.5	1.51	7.58	CLAY LOAM	39	27	34	56.4
14384124	68646	15-20	1.65	12.11	7.8	5.8	6.4	2.46	7.72	CLAY LOAM	37	27	36	57.9
14384125	68647	20-25	1.18	11.21	5.9	2.8	4.5	2.17	7.62	SANDY CLAY LOAM	55	23	22	39.7
14384126	68648	25-30	3.48	13.73	26.7	11.6	9.5	2.16	6.46	SANDY CLAY LOAM	55	19	26	63.7
14384127	68649	30-35	2.09	10.99	7.2	3.0	12.8	5.68	7.81	SILTY CLAY	17	41	42	77.0
14384128	68650	35-40	2.48	8.64	2.6	1.1	17.7	12.92	8.31	SILTY CLAY	15	41	44	91.8
14384129	68651	40-45	2.76	10.20	2.2	1.3	24.6	18.40	8.40	CLAY LOAM	23	39	38	97.1
14384130	68653	45-50	2.33	9.85	1.2	0.8	21.0	21.33	8.52	CLAY LOAM	27	37	36	110.1
14384131	68654	50-55	2.87	9.73	0.7	0.5	26.7	34.23	8.62	CLAY	9	37	54	107.8
14384132	68655	55-60	4.67	10.76	1.6	1.4	47.3	39.14	7.50	CLAY LOAM	33	35	32	96.2
14384133	68656	60-65	3.16	10.11	0.6	0.5	30.9	43.13	8.16	CLAY LOAM	23	37	40	109.1
14384134	68658	65-70	2.91	10.25	0.4	0.3	29.1	47.82	8.84	CLAY LOAM	33	33	34	108.8
14384135	68659	70-75	1.95	10.04	0.5	0.6	18.5	25.22	9.00	SILTY CLAY	15	41	44	136.7
14384136	68660	75-80.4	2.12	10.12	0.4	0.4	20.6	32.03	8.40	CLAY	13	19	68	123.8
14384137	68661	92.8-97.8	2.20	9.54	0.5	0.2	20.3	33.85	7.76	CLAY	19	25	56	115.4

**Overburden (Rows 2-17) Average SAR: 18.39**

<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>
14355681	68669	0-5	2.00	11.05	2.4	4.6	15.1	8.09	8.07	CLAY LOAM	43	25	32	57.5
14355682	68671	5-10	5.21	14.45	20.0	27.2	28.0	5.76	7.85	SANDY CLAY LOAM	47	19	34	57.3
14355683	68672	10-15	2.13	12.23	9.5	5.7	10.8	3.91	8.02	SAND	97	3	0	29.8
14355684	68673	15-20	2.45	12.06	9.7	5.9	13.9	4.96	7.85	SAND	95	3	2	32.1
14355685	68675	20-25	2.47	12.11	10.2	6.2	13.5	4.72	7.95	SAND	93	3	4	28.2
14355686	68676	25-30	3.99	12.05	19.2	10.4	18.5	4.80	7.79	SAND	91	5	4	28.8
14355687	68677	30-35	3.05	12.54	10.9	7.0	20.4	6.83	7.87	SAND	89	5	6	27.0
14355688	68678	35-40	5.25	14.49	21.8	15.1	39.1	9.11	7.30	SANDY LOAM	69	17	14	38.0
14355689	68679	40-45	4.29	11.26	9.3	6.6	32.4	11.46	7.74	LOAM	39	35	26	62.1
14355690	68681	45-50	3.77	10.97	4.6	3.6	33.1	16.33	7.68	CLAY LOAM	31	29	40	67.6
14355691	68682	50-55	3.37	9.90	1.8	1.4	30.1	23.74	8.38	CLAY LOAM	39	21	40	75.3
14355692	68684	55-60	3.41	10.82	1.2	1.0	34.7	33.18	8.07	CLAY	37	19	44	78.3
14355693	68685	60-65	2.55	10.37	0.4	0.3	25.8	44.95	8.91	SANDY CLAY LOAM	53	19	28	76.9
14355694	68686	65-70	3.21	10.20	0.4	0.3	32.0	51.40	8.90	SANDY CLAY LOAM	51	25	24	75.0
14355695	68688	70-75	2.35	9.69	0.3	0.2	22.3	44.28	9.22	SANDY CLAY LOAM	59	19	22	90.2
14355696	68689	75-80	2.15	10.44	0.1	0.1	22.2	63.67	9.29	SANDY LOAM	71	13	16	82.7
14355697	68690	80-85	2.22	9.92	0.3	0.4	21.4	37.22	9.15	SANDY LOAM	67	13	20	90.2
14355698	68691	85-90	1.96	9.90	0.1	0.1	19.2	61.72	9.30	SANDY LOAM	69	13	18	89.7
14355699	68692	90-93	1.70	9.85	0.2	0.2	16.3	36.47	9.15	SANDY CLAY LOAM	57	15	28	91.3
14355700	68693	105-110	2.27	10.58	0.6	0.6	22.8	29.31	8.29	CLAY	13	23	64	127.3

**Overburden (Rows 2-20) Average SAR: 24.87**

<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>
14384221	68695	0-5	10.83	16.21	18.3	46.2	111.1	19.56	8.25	CLAY LOAM	29	35	36	63.4
14384222	68697	5-10	11.81	15.32	22.0	30.6	128.4	25.05	8.34	CLAY LOAM	33	31	36	62.7
14384223	68698	10-15	3.95	8.84	1.8	2.1	30.9	21.90	8.47	CLAY	27	31	42	114.3
14384224	68699	15-20	4.09	9.41	2.1	2.4	34.0	22.68	8.41	CLAY	21	37	42	107.4
14384225	68701	20-25	3.30	10.65	1.6	1.8	31.7	24.10	8.50	SILTY CLAY LOAM	19	43	38	108.9
14384226	68702	25-30.45	3.19	10.70	1.6	1.5	31.0	25.00	8.39	CLAY	7	29	64	112.3
14384227	68704	41.8-46.8	1.78	11.52	0.5	0.4	19.6	29.81	8.07	CLAY	21	33	46	101.5

**Overburden (Rows 2-7) Average SAR: 23.05**

<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>
14384231	68705	0-5	3.33	10.81	1.5	5.5	29.0	15.52	8.57	CLAY	27	21	52	77.3
14384232	68707	5-10	10.38	15.65	21.0	43.9	97.5	17.12	8.41	CLAY LOAM	31	35	34	74.3
14384233	68708	10-15	5.10	11.34	3.6	7.7	46.6	19.60	8.40	CLAY LOAM	21	43	36	90.7
14384234	68709	15-20	2.65	9.72	0.7	0.9	24.2	27.24	8.79	SILTY CLAY LOAM	13	49	38	118.7
14384235	68710	20-25	3.23	9.98	0.7	0.8	30.7	34.66	9.01	CLAY LOAM	25	45	30	98.6
14384236	68711	25-30	2.73	10.06	0.5	0.5	26.4	36.89	8.85	SILTY CLAY LOAM	15	47	38	118.4
14384237	68712	30-35	3.73	8.10	0.5	0.5	29.3	42.04	8.71	LOAM	41	37	22	71.7
14384238	68714	35-40	2.18	10.39	0.5	0.3	21.9	35.27	9.01	SILTY CLAY	9	45	46	129.1
14384239	68715	40-45	2.73	10.34	0.3	0.3	27.6	48.81	8.93	CLAY LOAM	29	35	36	100.9
14384240	68716	45-50	2.55	10.05	0.3	0.3	25.0	46.00	8.73	CLAY	3	37	60	96.4
14384241	68718	50-54.35	2.52	10.34	0.4	0.3	25.3	41.61	8.31	CLAY	13	17	70	129.3
14384242	68719	65.3-70.3	4.73	10.96	1.3	1.4	49.2	42.82	6.86	CLAY	27	11	62	101.5

**Overburden (Rows 2-12) Average SAR: 33.16**

<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>
14355631	68728	0-5	2.44	11.43	5.0	6.1	16.8	7.12	7.91	SANDY CLAY LOAM	53	25	22	42.4
14355632	68729	5-10	6.57	13.34	8.2	18.2	61.3	16.90	8.23	CLAY	29	29	42	65.3
14355633	68730	10-15	10.92	16.62	25.7	50.0	105.7	17.18	6.23	CLAY	21	23	56	73.7
14355634	68731	15-20	7.89	14.94	22.3	24.8	70.8	14.57	7.94	CLAY	9	21	70	94.4
14355635	68732	20-25	3.32	10.99	1.6	1.6	33.3	26.33	8.44	CLAY	16	35	49	103.9
14355636	68733	25-29.45	4.03	10.6	2.0	3.6	37.1	22.08	8.68	CLAY LOAM	21	51	28	85.9
14355637	68734	31-35	2.94	9.38	0.8	0.7	26.1	30.81	8.33	CLAY	11	19	70	97.4
14355638	68735	35-40	3.96	9.05	0.9	0.7	34.3	39.43	8.74	SILTY CLAY	5	43	52	109.1
14355639	68736	40-45	2.69	9.91	0.5	0.4	25.7	37.70	8.97	SILTY CLAY LOAM	18	49	33	113.7
14355640	68737	45-50	2.95	10.98	0.6	0.5	31.3	42.46	8.24	CLAY	14	37	49	111.1
14355641	68738	50-55	1.6	10.82	0.3	0.2	16.8	31.59	9.18	CLAY LOAM	28	39	33	128.0
14355642	68739	55-60	1.84	9.62	0.4	0.3	17.1	30.72	9.17	CLAY LOAM	39	29	32	115.9
14355643	68740	60-65	1.74	10.15	0.2	0.2	17.3	38.62	9.31	SANDY CLAY LOAM	66	13	21	97.3
14355644	68741	65-70	2.08	10	0.4	0.2	20.2	36.42	9.04	SANDY LOAM	74	11	15	77.0
14355645	68742	70-75	1.55	9.49	0.3	0.2	14.2	29.46	9.40	CLAY LOAM	20	41	39	98.6
14355646	68743	75-80	1.57	9.6	0.4	0.2	14.5	26.48	9.37	CLAY LOAM	30	37	33	104.9
14355647	68744	80-85	2.19	10.14	0.5	0.3	21.4	34.12	8.93	SILTY CLAY	16	43	41	118.0
14355648	68745	85-89.5	4.45	9.69	1.9	1.7	39.5	29.58	8.49	CLAY	22	31	47	136.5
14355649	68746	101-106	3.71	10.91	0.8	0.7	39.0	44.85	8.07	CLAY	16	35	49	83.8

Overburden (Rows 2-19) Average SAR: 28.42

<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>
14384301	68765	0-5	6.52	14.20	13.8	18.6	60.2	14.98	8.19	SILTY CLAY	16	41	43	80.9
14384302	68766	5-10	2.49	10.65	0.6	1.0	24.9	27.94	8.87	CLAY LOAM	27	37	36	137.1
14384303	68767	10-15	6.61	17.03	3.6	3.7	105.3	55.05	8.66	CLAY LOAM	24	41	35	121.8
14384304	68768	15-20	2.43	10.35	0.6	0.5	24.1	32.43	8.74	CLAY	7	29	64	132.5
14384305	68769	20-24.7	2.35	10.80	0.8	0.7	23.9	27.33	7.53	CLAY	18	17	65	100.2
14384306	68770	35.7-40.7	3.23	11.22	3.1	2.2	30.9	19.00	7.81	CLAY	17	17	66	109.9

**Overburden (Rows 2-6) Average SAR: 31.55**