

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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Filing Details	
Court	Burleigh County
Case Number	08-2024-CV-00694
Case Style	Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.
Date/Time Submitted	4/9/2024 4:53 PM CST
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Filing Description	CR Exhibit 30 - Exhibit 13 - COY-036 OB Sample Analyses
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Filed By	Pamela Thompson
Filing Attorney	John Schuh

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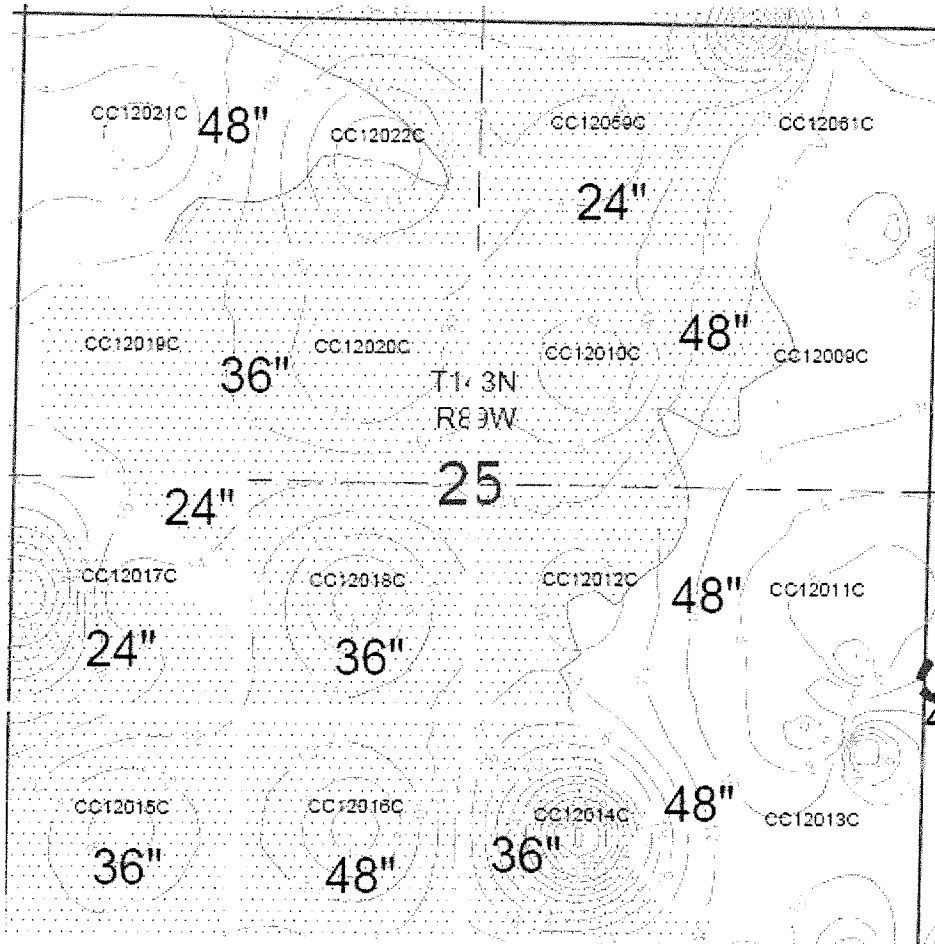
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Casey and Julie Voigt v. Coyote Creek Mining Company, LLC

Case No. RC-23-348

COY-036 OB Sample Analyses

Voigt Exhibit 13





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Coyote Creek
 204 County Rd 15
 Beulah, ND 58523

Date Sampled: 06/28/12
 Date Received: 07/06/12
 Date Reported: 08/15/12

Site: CC12021C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
12938441	35951	0-5	2.27	12.14	3.5	8.7	15.3	6.20	8.0	CLAY LOAM	38	24	38	69.5
12938442	35952	5-10	5.34	12.07	7.7	16.4	40.3	11.62	8.0	CLAY LOAM	34	26	40	79.2
12938443	35953	10-15	7.38	17.69	22.8	41.7	66.0	11.62	7.9	CLAY LOAM	20	44	36	82.5
12938444	35954	15-20	4.52	11.27	7.8	9.6	33.5	11.37	7.8	SILTY CLAY	9	42	49	98.6
12938445	35955	20-25	3.28	12.15	5.2	4.1	30.5	14.13	7.3	SILTY CLAY	9	42	49	91.6
12938446	35956	25-30	3.12	9.06	1.1	1.0	26.1	25.14	8.1	SILTY CLAY	17	41	42	119.5
12938447	35957	30-35	1.94	10.35	0.5	0.4	19.2	28.00	8.6	CLAY	19	24	57	153.8
12938448	35958	35-40	2.04	8.90	0.4	0.4	17.3	27.22	9.0	CLAY LOAM	21	46	33	92.6
12938449	35959	40-45	1.76	10.49	0.3	0.3	17.8	31.38	9.1	CLAY LOAM	25	44	31	107.6
12938450	35960	45-50	1.75	10.50	0.2	0.2	17.9	36.06	9.3	LOAM	43	32	25	117.9
12938451	35961	50-55	1.68	10.18	0.3	0.3	16.5	29.92	9.2	LOAM	33	40	27	100.9
12938452	35962	55-60	2.36	9.99	0.5	0.4	22.6	32.09	8.6	SILTY CLAY	9	46	45	123.8
12938453	35963	60-65	2.12	10.57	0.5	0.4	21.5	32.69	8.6	CLAY	13	26	61	124.6
12938454	35964	65-67	1.41	11.21	0.3	0.4	15.1	25.06	7.6	CLAY	29	10	61	118.5
12938455	35965	78-83	1.20	11.30	0.6	0.6	12.4	16.52	8.1	CLAY	13	40	47	95.0



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Coyote Creek
 204 County Rd 15
 Beulah, ND 58523

Date Sampled: 06/28/12
 Date Received: 07/06/12
 Date Reported: 09/04/12

Site: CC12022C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
12938421	35934	0-5	1.25	11.33	2.0	5.8	6.4	3.23	8.3	CLAY LOAM	34	26	40	71.6
12938422	35935	5-10	1.00	11.03	0.4	1.2	9.4	10.44	8.9	CLAY LOAM	26	44	30	96.2
12938423	35936	10-15	1.33	10.79	0.4	0.9	13.1	16.55	8.7	SILTY CLAY LOAM	18	52	30	120.1
12938424	35937	15-20	1.48	10.98	0.5	0.9	14.9	18.26	8.5	SILT LOAM	24	51	25	100.5
12938425	35938	20-25	1.48	10.04	0.5	0.7	13.7	17.67	8.6	CLAY LOAM	22	50	28	130.9
12938426	35939	25-30	3.69	11.47	2.8	2.7	36.8	22.15	7.5	CLAY	22	16	62	132.8
12938427	35940	30-35	2.54	9.83	0.7	0.6	23.7	29.72	8.4	CLAY	6	32	62	144.5
12938428	35941	35-40	1.91	10.35	0.3	0.3	19.1	32.79	8.9	Not enough sample				171.6
12938429	35942	40-45	1.57	10.52	0.3	0.4	15.8	26.06	9.2	CLAY LOAM	26	44	30	151.2
12938430	35943	45-50	1.98	10.34	0.3	0.3	19.9	36.25	8.9	CLAY LOAM	26	40	34	131.2
12938431	35944	50-55	1.48	12.75	0.3	0.2	18.4	36.87	9.3	LOAM	44	34	22	111.5
12938432	35945	55-60	1.64	10.74	0.3	0.2	17.2	36.01	9.3	SANDY CLAY LOAM	52	24	24	111.7
12938433	35946	60-65	2.04	10.38	0.3	0.3	20.5	36.50	8.8	SILTY CLAY LOAM	18	42	40	148.6
12938434	35947	65-70	2.30	11.64	0.4	0.3	26.0	42.92	9.0	CLAY LOAM	36	36	28	138.7
12938435	35948	70-75	1.90	10.18	0.3	0.2	18.8	37.15	8.9	SILTY CLAY LOAM	14	46	40	178.6
12938436	35949	75-80	2.78	10.67	0.4	0.4	28.8	44.61	8.6	CLAY	8	26	66	165.8
12938437	35950	90-95	1.40	9.44	0.3	0.2	12.7	25.59	8.9	SILTY CLAY	15	44	41	105.5



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Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 07/25/12
Date Received: 08/07/12
Date Reported: 01/09/13

Site: CC12059C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14423101	41252	0-5	1.80	12.66	6.5	7.4	8.8	3.35	7.76	SANDY CLAY LOAM	46	21	33	47.1
14423102	41253	5-10	2.53	10.49	4.1	7.8	14.6	5.99	8.20	CLAY LOAM	40	25	35	53.7
14423103	41254	10-15	2.00	11.54	3.2	4.2	15.7	8.15	8.22	CLAY LOAM	38	25	37	68.1
14423104	41255	15-20	2.85	11.32	5.0	5.8	21.5	9.27	8.14	SANDY LOAM	74	13	13	29.8
14423105	41256	20-25	2.04	10.82	2.1	2.8	17.2	10.94	8.31	CLAY LOAM	26	43	31	74.8
14423106	41257	25-30	2.04	10.55	2.0	2.6	17.0	11.22	8.23	CLAY	8	29	63	90.5
14423107	41258	30-35	2.22	10.94	2.2	3.1	18.9	11.57	8.30	LOAM	36	37	27	59.8
14423108	41259	35-40	1.84	9.73	1.0	1.0	15.8	15.46	8.51	CLAY	14	39	47	101.0
14423109	41260	40-45	2.43	10.75	1.0	1.0	24.1	23.68	8.53	CLAY	14	37	49	91.6
14423110	41261	45-50	2.24	10.44	0.6	0.5	22.2	29.05	8.92	SILTY CLAY LOAM	14	53	33	97.9
14423111	41262	50-55	2.46	10.42	0.6	0.5	24.6	34.25	8.74	SILTY CLAY	12	45	43	101.8
14423112	41263	55-60	5.48	10.94	1.4	1.2	57.3	50.12	8.03	CLAY	17	18	65	128.3
14423113	41264	60-65	2.08	10.56	0.5	0.5	21.0	29.80	9.00	SILTY CLAY	9	46	45	127.3
14423114	41265	65-70	1.77	10.21	0.2	0.2	17.6	38.27	9.26	SILTY CLAY LOAM	17	46	37	138.8
14423115	41266	70-75	1.97	10.60	0.4	0.4	20.1	32.10	8.88	SILTY CLAY	11	43	46	146.3
14423116	41267	75-80	2.47	9.38	0.4	0.3	22.4	36.21	8.90	CLAY	7	40	53	139.8
14423117	41268	80-85	2.16	10.52	0.4	0.3	22.1	37.91	9.01	CLAY	9	40	51	146.6
14423118	41269	85-90	2.13	10.06	0.4	0.4	20.7	33.25	9.14	SILTY CLAY LOAM	17	48	35	121.6
14423119	41270	90-95	2.09	11.02	0.5	0.4	22.2	34.45	9.00	SILTY CLAY LOAM	13	48	39	128.7
14423120	41271	95-100	1.90	10.71	0.3	0.2	19.8	37.83	8.95	SILTY CLAY LOAM	15	50	35	120.6
14423121	41272	100-105	1.97	10.82	0.4	0.4	20.6	33.32	8.79	SILTY CLAY	9	46	45	143.2
14423122	41273	105-110.7	2.37	10.25	0.6	0.5	23.2	31.97	8.17	CLAY	17	24	59	126.1
14423123	41274	122.8-127.5	2.78	11.19	0.8	0.7	29.6	34.38	7.88	CLAY	13	24	63	128.6



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Coyote Creek
 204 County Rd 15
 Beulah, ND 58523

Date Sampled: 07/26/12
 Date Received: 08/07/12
 Date Reported: 01/09/13

Site: CC12061C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
12946641	41287	0-5	1.96	11.04	6.6	5.1	9.9	4.07	7.38	SANDY LOAM	75	10	15	28.7
12946642	41292	5-10	2.59	11.50	4.0	7.8	18.0	7.40	8.02	CLAY LOAM	41	26	33	55.6
12946643	41293	10-15	6.57	17.16	25.8	43.7	43.3	7.34	7.89	CLAY	11	20	69	90.7
12946644	41294	15-20	3.66	12.95	8.0	14.5	24.9	7.41	7.98	CLAY	11	36	53	79.1
12946645	41295	20-25	2.38	10.67	3.5	5.9	15.9	7.33	8.16	SILTY CLAY LOAM	19	50	31	69.4
12946646	41296	25-30	2.14	10.68	3.4	3.8	15.7	8.31	7.94	CLAY	5	36	59	84.4
12946647	41297	30-35	4.39	11.21	7.7	9.4	32.0	10.94	6.82	CLAY	25	28	47	67.7
12946648	41298	35-40	3.00	10.88	3.5	3.1	26.1	14.42	7.67	SILTY CLAY LOAM	17	48	35	75.2
12946649	41299	40-45	1.96	10.43	0.9	0.6	18.9	21.21	8.46	SILTY CLAY LOAM	13	54	33	83.7
12946650	41300	45-50	1.83	10.37	0.5	0.4	18.0	25.80	8.86	CLAY LOAM	31	40	29	89.4
12946651	41301	50-55	2.61	10.47	0.8	0.6	26.0	31.65	8.46	CLAY	12	35	53	123.1
12946652	41302	55-60	2.35	11.14	0.6	0.4	25.2	35.82	8.68	CLAY	16	37	47	118.2
12946653	41303	60-65	3.78	11.10	1.1	1.0	39.9	39.50	7.64	CLAY LOAM	22	43	35	82.6
12946654	41304	65-70	2.47	10.66	0.6	0.6	25.1	32.43	8.42	CLAY	6	31	63	136.4
12946655	41305	70-75	2.33	9.76	0.6	0.7	21.4	26.47	8.76	CLAY LOAM	22	45	33	120.3
12946656	41306	75-80	2.00	11.03	0.5	0.4	21.2	32.16	8.76	SILTY CLAY	18	41	41	150.1
12946657	41307	80-84.3	2.68	11.36	1.0	0.7	28.7	30.73	7.94	CLAY	16	15	69	111.8
12946658	41308	97.2-102.2	2.04	10.99	2.0	2.0	18.4	12.95	7.28	CLAY	18	29	53	79.8



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 07/02/12
Date Received: 07/06/12
Date Reported: 08/14/12

Site: CC12019C

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
12938461	35966	0-5	7.48	16.16	13.0	32.3	75.6	15.88	8.1	SANDY CLAY LOAM	59	16	25	46.4
12938462	35967	5-10	3.07	11.32	1.2	3.9	29.6	18.49	8.6	CLAY LOAM	29	38	33	119.0
12938463	35968	10-15	1.83	8.54	0.6	1.1	13.9	15.01	8.5	SANDY LOAM	57	24	19	72.2
12938464	35969	15-20	1.73	10.45	0.9	1.4	15.8	14.64	8.4	LOAM	47	34	19	65.2
12938465	35970	20-25	2.03	10.30	0.9	1.7	18.3	16.06	8.5	LOAM	49	32	19	68.2
12938466	35972	25-30	3.19	10.81	1.5	2.3	30.7	22.26	8.4	SANDY LOAM	69	14	17	66.7
12938467	35973	30-35	2.94	9.40	0.7	0.9	26.1	29.42	8.8	SANDY LOAM	63	20	17	81.7
12938468	35975	35-40	2.41	10.39	0.8	0.8	23.4	26.27	8.6	SANDY CLAY LOAM	49	18	33	85.7
12938469	35977	40-45	2.55	10.35	0.8	0.7	24.9	28.51	8.4	CLAY	27	22	51	108.4
12938470	35979	45-50	2.91	10.52	0.8	0.7	29.1	33.29	7.9	CLAY	35	14	51	102.0
12938471	35982	50-55	2.40	9.07	0.4	0.4	20.9	32.30	8.6	CLAY	19	26	55	84.5
12938472	35984	55-60	1.47	10.10	0.3	0.3	14.2	25.73	9	CLAY LOAM	27	40	33	96.9
12938473	35986	60-65	1.85	11.02	0.3	0.3	19.8	36.67	8.5	CLAY LOAM	22	45	33	99.4
12938474	35987	65-70	1.76	10.36	0.3	0.3	17.7	33.19	8.8	CLAY LOAM	21	44	35	132.9
12938475	35990	70-75	2.02	10.66	0.3	0.3	20.9	37.77	8.7	SILTY CLAY	17	42	41	136.8
12938476	35991	75-80	2.05	10.68	0.3	0.3	21.2	36.93	8.8	SILTY CLAY LOAM	17	46	37	139.9
12938477	35992	80-85	2.48	11.09	0.4	0.4	26.7	42.11	8.8	CLAY	17	38	45	92.3
12938478	35993	85-90	2.17	10.58	0.3	0.3	22.3	39.46	8.6	CLAY	11	30	59	99.9
12938479	35994	90-93	1.75	10.41	0.4	0.4	17.4	26.73	7.4	CLAY LOAM	37	24	39	83.9
12938480	35995	104-109	1.95	11.15	0.4	0.4	20.9	33.10	8.1	CLAY	15	18	67	145.0



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/28/12
Date Received: 07/06/12
Date Reported: 09/06/12

Site: CC12020C

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251671	36158	0-5	2.50	10.80	6.6	7.4	13.0	4.92	7.9	CLAY LOAM	43	22	35	59.6
13251672	36159	5-10	2.50	11.15	1.5	3.9	22.4	13.55	8.4	CLAY	15	32	53	79.3
13251673	36160	10-15	4.35	12.70	4.9	8.6	41.8	16.09	7.0	CLAY	17	36	47	85.3
13251674	36161	15-20	4.19	11.46	4.2	5.9	37.9	16.84	7.9	SILTY CLAY LOAM	19	42	39	111.2
13251675	36162	20-25	3.35	10.74	2.0	3.0	31.0	19.56	8.1	SILTY CLAY	13	42	45	130.9
13251676	36163	25-30	2.24	10.09	0.7	1.1	20.8	22.03	8.5	SILTY CLAY LOAM	19	50	31	133.8
13251677	36164	30-35	5.60	13.06	2.1	3.1	68.0	42.39	8.6	LOAM	41	34	25	112.5
13251678	36165	35-40	2.48	10.78	0.9	0.9	25.0	26.63	8.4	CLAY LOAM	23	44	33	127.7
13251679	36166	40-45	2.40	9.43	0.4	0.6	21.6	30.42	8.6	SILTY CLAY LOAM	17	52	31	132.5
13251680	36167	45-50	2.97	7.40	0.5	0.5	21.0	30.20	8.8	CLAY LOAM	21	44	35	127.3
13251681	36168	50-55	1.97	9.65	0.3	0.3	18.3	31.35	9.0	LOAM	41	34	25	130.2
13251682	36169	55-60	1.64	11.47	0.4	0.3	18.1	30.81	9.0	LOAM	41	36	23	115
13251683	36170	60-65	2.82	10.93	0.8	0.7	29.3	33.21	8.0	CLAY	15	26	59	136.5
13251684	36171	65-70	2.36	10.63	0.5	0.4	24.1	35.48	8.5	CLAY	13	34	53	126.1
13251685	36172	70-75	1.63	10.07	0.3	0.3	15.8	28.54	9.0	CLAY LOAM	23	40	37	164.5
13251686	36173	75-80	1.93	9.30	0.4	0.4	17.2	29.01	8.8	SILTY CLAY LOAM	13	48	39	168
13251687	36174	80-85	2.00	10.57	0.4	0.3	20.4	34.76	8.7	CLAY	7	36	57	144.2
13251688	36175	85-90	1.77	10.31	0.3	0.3	17.7	32.22	8.8	SILTY CLAY	15	42	43	176.3
13251689	36176	90-95	1.75	10.44	0.3	0.3	17.7	31.96	8.8	SILTY CLAY LOAM	19	44	37	150
13251690	36177	95-100	2.06	8.64	0.3	0.3	17.2	32.66	8.7	CLAY	15	40	45	140.8
13251692	36178	100-105	1.86	10.42	0.3	0.3	18.8	35.66	8.6	CLAY	5	28	67	139
13251693	36179	105-107	1.00	11.87	0.3	0.6	11.0	16.33	8.5	CLAY	5	22	73	131
13251694	36180	118-123	1.73	10.39	0.3	0.4	17.3	29.39	7.7	Not enough sample				127.8



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 Beulah, ND 58523

Date Sampled: 06/26/12
 Date Received: 07/06/12
 Date Reported: 09/06/12

Site: CC12010C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251721	35903	0-5	11.92	15.47	21.9	58.9	103.7	16.31	8.1	SANDY CLAY LOAM	56	17	27	45.0
13251722	35904	5-10	10.14	13.82	9.5	34.0	96.6	20.69	8.4	CLAY LOAM	42	23	35	73.7
13251723	35905	10-15	5.23	22.07	19.4	23.1	72.9	15.81	8.2	CLAY LOAM	24	37	39	85.8
13251724	35906	15-20	3.77	11.51	2.2	3.8	37.3	21.43	8.4	CLAY	14	37	49	92.6
13251725	35907	20-25	2.83	10.43	0.9	1.4	27.2	25.35	8.5	CLAY	14	33	53	85.9
13251726	35908	25-30	2.77	10.66	1.0	1.3	27.3	25.61	8.6	SILTY CLAY LOAM	18	43	39	91.8
13251727	35909	30-35	1.90	10.32	0.4	0.4	18.8	29.46	8.9	SILTY CLAY LOAM	16	49	35	82.8
13251728	35910	35-40	2.16	10.53	0.4	0.4	21.9	33.53	8.8	CLAY LOAM	26	45	29	77.4
13251729	35911	40-45	3.95	10.82	1.0	0.9	40.8	41.54	7.8	CLAY LOAM	23	38	39	99.9
13251730	35912	45-50	2.64	10.86	0.4	0.4	27.8	42.42	8.5	SILTY CLAY LOAM	17	44	39	142.8
13251731	35913	50-55	2.53	11.18	0.4	0.3	27.6	46.53	8.2	CLAY	13	32	55	124.9
13251732	35914	55-60	3.73	10.97	0.8	0.7	39.5	45.91	7.8	CLAY	19	34	47	100.6
13251733	35915	60-65	2.58	10.73	0.4	0.3	27.0	45.58	8.5	CLAY	11	28	61	158.6
13251734	35916	65-70	2.00	10.21	0.3	0.3	19.8	35.03	8.9	SILTY CLAY LOAM	15	48	37	158.5
13251735	35917	70-75	1.98	8.67	0.3	0.4	16.5	28.88	9.2	LOAM	27	46	27	145.6
13251736	35918	75-80	1.63	10.70	0.3	0.4	16.8	28.97	9.1	LOAM	33	40	27	147.7
13251737	35919	80-85	1.90	10.68	0.3	0.4	19.6	32.94	8.9	SILTY CLAY	13	46	41	145.2
13251738	35920	85-90	2.22	10.68	0.3	0.3	23.1	41.16	8.7	CLAY	5	40	55	139.1
13251739	35921	100-105	2.62	10.03	0.4	0.4	25.5	39.72	8.4	CLAY	17	34	49	149.0



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/26/12
Date Received: 07/06/12
Date Reported: 08/20/12

Site: CC12009C

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366691	35827	0-5	2.55	12.44	8.8	9.9	13.1	4.28	7.9	SANDY CLAY LOAM	45	24	31	52.3
14366692	35828	5-10	3.16	10.69	3.3	7.5	23.0	9.94	8.1	CLAY LOAM	38	23	39	76.8
14366693	35829	10-15	2.70	11.83	3.0	5.3	23.6	11.51	8.2	LOAM	24	49	27	67.8
14366694	35830	15-20	4.28	10.50	6.4	7.9	30.6	11.44	8.0	SILTY CLAY LOAM	18	45	37	83.8
14366695	35831	20-25	2.23	10.59	1.7	2.0	19.9	14.53	8.3	CLAY	12	39	49	94.9
14366696	35832	25-30	3.36	11.51	3.1	3.6	32.0	17.55	7.4	CLAY	18	21	61	84.9
14366697	35833	30-35	3.94	11.88	3.2	3.3	40.4	22.50	7.2	CLAY	26	23	51	81.7
14366698	35834	35-40	2.93	9.62	0.7	0.8	26.6	29.89	8.2	SILTY CLAY	16	41	43	97.9
14366699	35835	40-45	2.57	11.01	0.5	0.8	27.0	33.87	8.5	CLAY	6	23	71	118.2
14366700	35836	45-50	2.76	10.39	0.6	0.6	27.5	35.66	8.4	CLAY	12	33	55	122.2
14366701	35837	50-55	2.72	10.97	0.5	0.5	28.9	41.26	8.4	CLAY	14	21	65	136.7
14366702	35838	55-60	2.16	9.65	0.3	0.3	20.2	36.83	8.7	CLAY LOAM	26	35	39	147.1
14366703	35839	60-65	1.98	11.08	0.3	0.3	21.3	38.54	8.7	SILTY CLAY	14	45	41	142.5
14366704	35840	65-70	2.62	9.18	0.3	0.3	23.4	41.47	8.7	CLAY	10	33	57	131.9
14366705	35841	70-72	0.92	10.51	0.2	0.2	9.3	20.70	8.5	CLAY LOAM	20	43	37	81.4
14366706	35842	83-88	2.05	10.99	0.4	0.4	21.7	32.95	8.0	CLAY	16	13	71	115.3



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Coyote Creek
 204 County Rd 15
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Date Sampled: 06/28/12
 Date Received: 07/06/12
 Date Reported: 08/15/12

Site: CC12017C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
12938481	35996	0-5	1.65	11.96	5.5	6.8	7.5	3.02	8.3	SANDY CLAY LOAM	47	22	31	52.9
12938482	35997	5-10	1.72	10.96	2.1	5.4	11.4	5.86	8.2	CLAY LOAM	33	28	39	77.1
12938483	35998	10-15	1.22	11.11	1.9	3.4	8.2	5.03	8.1	CLAY	15	24	45	79.1
12938484	35999	15-20	1.95	10.66	5.2	5.1	10.6	4.68	7.6	CLAY	15	24	61	83.7
12938485	36000	20-25	1.60	10.28	2.4	2.4	11.7	7.57	7.9	SILTY CLAY	17	42	41	95.2
12938486	36001	25-30	2.71	11.06	4.6	4.1	21.3	10.18	7.8	CLAY	11	31	58	104.2
12938487	36002	30-35	2.58	10.51	2.5	2.2	22.4	14.56	8.1	SILTY CLAY	5	44	51	100.5
12938488	36003	35-40	2.57	9.46	2.0	2.0	20.3	14.36	8.1	CLAY	17	28	55	94.7
12938489	36004	40-45	2.09	10.50	0.7	0.6	20.7	25.83	8.6	SILTY CLAY LOAM	17	48	35	112.3
12938490	36005	45-50	1.74	10.06	0.4	0.4	16.7	27.07	8.8	SILTY CLAY LOAM	19	50	31	118.0
12938491	36006	50-55	1.65	10.14	0.4	0.3	16.0	26.45	8.8	SILTY CLAY LOAM	19	48	33	149.5
12938492	36007	55-60	2.14	10.23	0.5	0.4	21.1	33.22	8.6	CLAY	9	34	57	133.2
12938493	36008	60-65	3.44	10.87	1.2	1.0	35.2	33.77	7.5	CLAY	25	21	54	106.0
12938494	36009	65-70	2.24	9.75	0.5	0.3	21.0	32.73	8.5	CLAY LOAM	25	40	35	104.5
12938495	36010	70-75	2.61	10.84	0.7	0.5	27.1	35.63	8.1	CLAY	19	40	41	124.8
12938496	36011	75-80	2.36	10.51	0.5	0.5	23.8	33.58	8.4	CLAY	7	20	73	151.3
12938497	36012	80-85	1.95	10.62	0.4	0.3	20.0	33.82	8.5	CLAY LOAM	36	34	30	121.2
12938498	36013	85-90	2.08	10.52	0.4	0.4	21.1	33.71	8.7	SILTY CLAY	7	50	43	133.4
12938499	36014	90-95	2.36	10.53	0.6	0.6	23.7	31.51	8.4	CLAY	3	31	66	124.4
12938500	36015	95-97.5	1.94	11.38	0.5	0.4	21.2	32.31	7.7	CLAY	23	18	59	104.0
13251501	36016	108-113	2.37	8.87	0.4	0.3	20.3	34.13	8.3	CLAY	10	31	59	115.3



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/27/12
Date Received: 07/06/12
Date Reported: 09/06/12

Site: CC12018C

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366661	35843	0-5	3.74	14.50	22.9	17.1	14.3	3.19	7.8	CLAY	19	26	55	81.9
14366662	35844	5-10	4.10	12.90	4.4	13.8	34.7	11.48	8.3	CLAY	5	26	69	105.0
14366663	35845	10-15	3.82	11.99	3.2	7.5	35.1	15.17	8.3	CLAY	5	26	69	127.3
14366664	35846	15-20	2.56	8.17	1.3	1.8	17.8	14.41	8.1	CLAY	3	14	83	143.9
14366665	35847	20-25	4.39	12.31	7.8	8.5	37.7	13.23	7.9	SILTY CLAY	15	42	43	107.6
14366666	35848	25-30	2.88	10.60	1.7	2.3	26.6	19.02	8.4	LOAM	31	48	21	59.2
14366667	35849	30-35	2.70	10.15	0.9	1.0	25.4	25.67	8.5	SILTY CLAY LOAM	19	46	35	91.7
14366668	35850	35-40	2.67	10.11	0.7	0.7	25.6	30.21	8.3	CLAY	11	40	49	106.7
14366669	35851	40-45	2.24	10.34	0.4	0.4	22.4	36.06	8.5	SILTY CLAY LOAM	13	48	39	107.1
14366670	35852	45-50	2.83	7.79	0.3	0.3	21.4	37.63	8.6	SILTY CLAY LOAM	17	50	33	94.1
14366671	35853	50-55	2.48	10.09	0.3	0.4	24.3	41.15	8.4	CLAY	15	34	51	93.5
14366672	35854	55-60	2.55	10.12	0.5	0.4	24.9	37.69	8.5	CLAY	11	36	53	101.2
14366673	35855	60-65	3.19	10.39	0.6	0.6	32.0	41.50	7.8	CLAY	13	18	69	87.6
14366674	35856	65-70	2.41	10.39	0.4	0.3	24.3	41.02	8.4	CLAY	15	30	55	116.4
14366675	35857	70-75	1.91	10.35	0.2	0.2	19.3	41.69	8.6	CLAY LOAM	21	42	37	121.3
14366676	35858	75-80	2.19	9.19	0.3	0.3	19.5	34.19	8.5	SILTY CLAY	9	42	49	108.2
14366677	35859	80-85	1.74	10.59	0.3	0.5	17.6	27.33	8.7	SILTY CLAY LOAM	19	46	35	99.0
14366678	35860	85-90	1.52	10.27	0.2	0.4	15.0	28.29	8.9	LOAM	41	32	27	104.7
14366679	35861	90-95	1.45	10.75	0.5	0.8	14.2	17.25	8.6	SILTY CLAY LOAM	19	46	35	149.0
14366680	35862	95-100	1.79	8.46	0.4	0.5	14.2	21.15	8.7	CLAY LOAM	25	40	35	134.0
14366681	35863	100-105	1.52	10.13	0.4	0.5	14.5	21.95	8.6	CLAY	15	36	49	97.8
14366682	35864	105-109	2.04	10.20	0.5	0.5	19.8	27.63	8.5	CLAY	7	20	73	92.0
14366683	35865	121-126	4.25	11.41	2.2	1.5	44.7	32.58	6.7	CLAY	14	11	75	122.0



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Coyote Creek
 204 County Rd 15
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Date Sampled: 06/26/12
 Date Received: 07/06/12
 Date Reported: 08/15/12

Site: CC12012C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251641	36136	0-5	1.82	10.30	9.0	4.0	5.7	2.24	7.1	SANDY LOAM	70	14	16	71.3
13251642	36137	5-10	1.50	10.62	7.9	3.6	4.5	1.86	7.7	CLAY LOAM	34	36	30	56.9
13251643	36138	10-15	1.04	11.93	6.6	3.1	2.7	1.23	7.7	CLAY LOAM	22	42	36	66.2
13251644	36139	15-20	1.27	12.10	7.4	3.9	4.1	1.72	7.7	CLAY LOAM	22	44	34	78.6
13251645	36140	20-25	1.36	11.75	5.9	3.9	6.1	2.77	8.0	CLAY LOAM	30	42	28	108.0
13251646	36141	25-30	1.98	10.01	3.5	2.8	13.5	7.54	8.1	CLAY LOAM	22	46	32	81.9
13251647	36142	30-35	2.35	10.57	1.5	1.2	22.2	19.20	7.9	CLAY	20	38	42	136.9
13251648	36143	35-40	2.67	10.52	1.1	0.9	26.2	26.63	8.2	CLAY	10	37	53	125.6
13251649	36144	40-45	2.04	10.39	0.3	0.2	20.6	39.56	8.8	CLAY	12	22	66	173.1
13251650	36145	45-50	2.33	10.01	0.4	0.4	22.6	36.31	8.8	CLAY	16	16	68	180.2
13251651	36146	50-55	2.32	10.65	0.6	0.5	23.6	31.79	8.6	CLAY LOAM	22	38	40	168.0
13251652	36147	55-60	2.13	10.32	0.4	0.4	21.2	33.70	8.9	SANDY CLAY LOAM	51	24	25	110.1
13251653	36148	60-65	2.09	10.16	0.4	0.4	20.5	33.71	8.8	SILTY CLAY LOAM	19	42	39	147.6
13251654	36149	65-70	2.34	9.43	0.4	0.4	21.3	35.30	8.8	SILTY CLAY	13	44	43	154.9
13251655	36150	70-72	1.45	11.09	0.4	0.3	15.4	26.40	8.2	CLAY LOAM	23	44	33	142.2
13251656	36151	84-89	1.73	10.55	0.3	0.2	17.7	32.96	8.5	SILTY CLAY LOAM	15	52	33	85.7



Coyote Creek
 204 County Rd 15
 Beulah, ND 58523

Date Sampled: 06/26/12
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Site: CC12011C

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Ref#	Lab#	Depth	EC	Ca/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366651	36213	0-5	9.95	14.51	21.3	40.4	82.7	14.89	8.0	CLAY	21	30	49	72.3
14366652	36214	5-10	10.21	13.70	17.4	36.7	85.7	16.47	8.0	CLAY	9	28	63	98.8
14366653	36215	10-15	8.61	13.75	18.7	27.7	72.0	14.96	7.9	CLAY	13	40	47	97.0
14366654	36216	15-20	4.64	12.22	4.0	7.3	45.4	19.08	8.2	SILTY CLAY	15	42	43	144.3
14366655	36217	20-25	4.09	11.42	2.9	3.9	39.9	21.58	8.1	CLAY	9	36	55	127.3
14366656	36218	25-28	5.30	7.73	2.0	2.7	36.3	23.66	7.7	CLAY	11	16	73	112.4
14366657	36219	39-44	2.10	10.64	1.3	1.3	19.8	17.38	7.4	CLAY	23	26	51	102.6



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/28/12
Date Received: 07/06/12
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Site: CC12015C

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Ref#	Lab#	Depth	EC	Ca/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251511	36042	0-5	5.43	14.95	14.6	27.0	39.5	8.67	7.9	CLAY LOAM	33	30	37	75.9
13251512	36043	5-10	8.09	15.37	22.7	39.3	62.3	11.19	7.9	CLAY	23	26	51	102.9
13251513	36044	10-15	2.34	9.18	1.3	2.4	17.8	13.05	8.2	CLAY	9	12	79	156.7
13251514	36045	15-20	1.90	10.55	1.2	1.8	17.0	13.91	8.0	CLAY	11	32	57	109.5
13251515	36046	20-25	1.83	8.14	0.7	1.0	13.2	14.21	8.4	CLAY	5	32	63	160.1
13251516	36047	25-30	1.64	10.53	0.9	1.1	15.3	15.46	8.3	CLAY	3	28	69	176.2
13251517	36048	30-35	2.64	8.56	1.3	1.3	20.1	17.79	8.2	CLAY	5	22	73	151.3
13251518	36049	35-40	2.90	11.71	1.6	1.5	30.9	25.11	7.6	CLAY	23	30	47	85.4
13251519	36050	40-45	1.60	9.99	0.4	0.4	15.2	24.46	8.7	CLAY	9	34	57	211.4
13251520	36051	45-50	1.57	9.86	0.4	0.3	14.9	26.45	8.8	SILT LOAM	21	52	27	127.8
13251521	36052	50-55	1.91	10.43	0.4	0.3	19.2	31.88	8.8	SILTY CLAY LOAM	19	52	29	110.7
13251522	36053	55-60	2.07	9.32	0.4	0.3	18.6	31.07	8.5	LOAM	23	50	27	122.4
13251523	36054	60-65	1.60	10.48	0.3	0.3	16.2	29.28	8.9	CLAY LOAM	21	48	31	124.7
13251524	36055	65-70	1.82	9.20	0.3	0.3	16.1	28.73	8.9	SILTY CLAY LOAM	13	50	37	147.8
13251525	36056	70-75	2.00	10.34	0.4	0.4	19.9	31.53	8.7	CLAY	3	30	67	136.3
13251526	36057	75-80	2.89	11.53	0.8	0.8	31.7	35.67	7.5	CLAY	33	22	45	66.8
13251527	36058	80-85	1.68	10.31	0.3	0.3	16.8	31.65	8.6	CLAY	7	40	53	136.0
13251528	36059	85-90	1.54	10.07	0.3	0.3	15.0	28.74	8.8	SILTY CLAY LOAM	17	48	35	157.9
13251529	36060	90-95	1.53	7.75	0.2	0.2	11.4	25.35	9.1	SILTY CLAY LOAM	15	50	35	182.8
13251530	36061	95-100	1.45	10.79	0.3	0.3	15.0	27.17	8.6	SILTY CLAY LOAM	15	46	39	167.5
13251541	36062	100-105	1.94	8.56	0.3	0.2	16.1	31.48	9.0	LOAM	29	44	27	144.0
13251542	36063	105-110	1.64	10.40	0.3	0.4	16.3	27.55	8.9	CLAY LOAM	29	40	31	143.2
13251543	36064	110-115	2.00	10.02	0.3	0.3	19.4	33.75	8.7	SILTY CLAY	9	44	47	115.3
13251544	36065	115-120	1.91	11.11	0.5	0.4	20.3	30.39	8.5	CLAY	11	20	69	124.5
13251545	36066	120-121.25	1.50	10.54	0.4	0.3	15.1	25.36	7.8	CLAY	37	10	53	109.9
13251546	36067	132-137	1.73	10.36	0.3	0.3	17.3	32.28	8.3	CLAY LOAM	27	38	35	103.0



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204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/27/12
Date Received: 07/06/12
Date Reported: 09/06/12

Site: CC12016C

604 Highway 15 West
P.O. Box 510
Northwood, ND 58267
(701) 587-6010
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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366711	36190	0-5	3.09	10.74	1.1	3.2	28.9	19.62	8.6	CLAY LOAM	39	24	37	113.8
14366712	36191	5-10	3.47	11.18	0.8	3.7	34.3	22.78	8.8	CLAY	19	28	53	158.1
14366713	36192	10-15	2.15	8.67	0.5	1.1	17.1	19.49	8.7	CLAY	11	22	67	168.7
14366714	36193	15-20	2.02	12.18	1.9	2.1	20.6	14.68	8.1	CLAY	17	40	43	111.3
14366715	36194	20-25	1.73	10.53	1.1	1.0	16.2	16.02	8.4	SILTY CLAY	15	42	43	106.8
14366716	36195	25-30	2.04	10.08	0.9	0.9	18.7	19.72	8.3	SILTY CLAY	5	42	53	108.2
14366717	36196	30-35	2.05	10.11	0.6	0.5	19.6	26.60	8.4	SILTY CLAY LOAM	17	48	35	97.1
14366718	36197	35-40	1.84	10.41	0.5	0.4	18.3	27.12	8.5	SILTY CLAY LOAM	15	48	37	114.3
14366719	36198	40-45	2.17	10.40	0.5	0.4	21.6	31.52	8.4	CLAY	7	32	61	87.9
14366720	36199	45-50	2.31	9.15	0.4	0.4	20.3	31.92	8.7	CLAY	9	34	57	95.2
14366721	36200	50-55	2.47	10.72	0.6	0.6	25.3	32.58	8.3	CLAY	15	30	55	118.2
14366722	36201	55-60	2.18	9.80	0.4	0.3	20.7	34.88	8.8	CLAY	5	36	59	138.1
14366723	36202	60-65	2.53	10.32	0.5	0.5	25.2	36.78	8.7	CLAY	13	20	67	93.1
14366724	36203	65-70	1.83	9.08	0.4	0.3	15.9	26.96	9.1	CLAY LOAM	25	38	37	83.4
14366725	36204	70-75	1.32	10.24	0.2	0.3	13.0	26.16	9.3	SILTY CLAY LOAM	17	44	39	119.2
14366726	36205	75-80	1.82	10.23	0.4	0.4	17.8	27.54	9.0	SILTY CLAY	11	44	45	137.9
14366727	36206	80-85	3.18	11.93	0.7	0.7	36.6	43.91	8.8	SILTY CLAY	13	46	41	134.1
14366728	36207	85-90	1.57	10.05	0.2	0.2	15.3	32.67	9.1	CLAY LOAM	33	36	31	97.8
14366729	36208	90-95	1.57	10.31	0.3	0.2	15.7	32.50	9.2	SANDY CLAY LOAM	55	20	25	87.3
14366730	36209	95-100	1.59	10.68	0.2	0.2	16.6	37.35	9.1	SANDY CLAY LOAM	46	25	29	113.3
14366731	36210	100-105	2.33	10.50	0.4	0.4	23.7	39.29	8.6	CLAY	18	35	47	130.2
14366732	36211	105-107	0.97	10.48	0.4	0.5	9.3	14.41	8.0	CLAY	9	8	83	132.8
14366733	36212	118-123	5.66	11.82	8.5	8.8	49.6	16.84	6.0	CLAY	17	16	67	108.0



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Coyote Creek
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 Beulah, ND 58523

Date Sampled: 06/26/12
 Date Received: 07/06/12
 Date Reported: 09/06/12

Site: CC12014C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366621	35866	0-5	1.59	11.88	7.2	5.7	6.0	2.35	7.6	SANDY CLAY LOAM	53	18	29	48.4
14366622	35867	5-10	1.05	11.90	4.5	5.3	2.7	1.23	7.9	CLAY LOAM	37	26	37	61.9
14366623	35868	10-15	1.35	11.77	4.4	7.3	4.2	1.71	7.9	SANDY LOAM	67	14	19	58.8
14366624	35869	15-20	1.95	12.34	6.9	9.2	8.0	2.80	7.9	SANDY LOAM	75	12	13	37.8
14366625	35870	20-25	1.73	12.35	6.3	7.5	7.5	2.84	8.0	LOAMY SAND	81	8	11	36.4
14366626	35871	25-30	1.63	12.94	6.6	8.0	6.5	2.43	7.9	SANDY LOAM	77	8	15	40.1
14366627	35872	30-35	1.59	12.25	6.0	7.2	6.3	2.45	7.9	SANDY LOAM	73	10	17	41.3
14366628	35873	35-40	1.53	10.91	4.0	4.9	7.8	3.68	8.2	SANDY LOAM	71	12	17	42.7
14366629	35874	40-45	2.41	10.25	1.3	1.2	22.2	19.80	8.2	CLAY	23	20	57	131.6
14366630	35875	45-50	2.29	10.24	0.9	0.8	21.8	23.79	8.4	CLAY	17	28	55	123.0
14366631	35876	50-55	1.85	9.85	0.3	0.3	17.7	33.20	9.1	CLAY	23	36	41	138.0
14366632	35877	55-60	2.09	9.41	0.3	0.3	19.0	33.93	9.2	CLAY LOAM	27	42	31	162.5
14366633	35878	60-65	1.82	10.41	0.2	0.3	18.4	36.49	9.1	CLAY LOAM	29	40	31	138.8
14366634	35879	65-70	1.95	10.20	0.3	0.3	19.3	34.21	9.0	CLAY LOAM	29	36	35	130.3
14366635	35880	70-75	2.32	10.28	0.3	0.3	23.2	41.97	9.1	SANDY CLAY LOAM	61	16	23	95.7
14366636	35881	75-80	2.02	11.06	0.3	0.3	21.7	38.13	9.0	SANDY CLAY LOAM	49	24	27	105.6
14366637	35882	80-85	1.98	10.45	0.4	0.3	20.0	33.00	8.9	CLAY LOAM	35	30	35	111.9
14366638	35883	85-90	2.49	10.20	0.7	0.7	24.0	29.01	8.7	CLAY	11	36	53	134.2
14366639	35884	90-94	1.11	10.97	0.3	0.3	11.5	20.18	8.4	CLAY	17	8	75	124.7
14366640	35885	106-111	0.86	10.62	0.4	0.4	8.3	12.84	8.1	CLAY	11	26	63	100.2



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Site: CC12013C

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366601	35886	0-5	2.00	12.14	6.1	6.2	12.0	4.82	8.1	SANDY CLAY LOAM	48	17	35	68.7
14366602	35887	5-10	5.19	14.84	6.3	17.6	53.1	15.37	8.1	CLAY LOAM	42	19	39	74.3
14366603	35888	10-15	7.53	13.72	16.2	27.1	60.1	12.92	8.0	LOAM	38	35	27	47.6
14366604	35889	15-20	5.71	14.18	13.9	19.1	48.0	11.84	7.9	CLAY	6	29	65	94.4
14366605	35890	20-25	5.73	14.19	17.1	18.8	45.4	10.72	7.8	CLAY	12	31	57	95.0
14366606	35891	25-30	6.65	17.61	30.2	28.5	58.4	10.78	5.9	CLAY LOAM	28	37	35	56.9
14366607	35892	30-35	6.10	14.93	14.1	13.7	63.3	16.98	6.8	CLAY	28	23	49	76.6
14366608	35893	35-40	3.77	9.74	1.6	1.5	33.6	27.08	7.9	CLAY	12	23	65	117.8
14366609	35894	40-45	2.92	10.41	0.5	0.4	29.4	42.11	8.9	SILTY CLAY	16	41	43	100.1
14366610	35895	45-50	1.95	10.23	0.3	0.3	19.3	33.08	8.8	SILTY CLAY	12	43	45	115.8
14366611	35896	50-55	1.73	10.10	0.3	0.3	16.8	28.92	8.8	SILTY CLAY	16	41	43	135.5
14366612	35897	55-60	1.55	10.35	0.2	0.2	15.6	32.34	9.0	CLAY LOAM	28	37	35	80.3
14366613	35898	60-65	2.22	8.86	0.3	0.3	19.0	33.52	8.9	SILTY CLAY	16	43	41	96.9
14366614	35899	65-70	1.76	10.39	0.4	0.4	17.5	27.06	8.7	SILTY CLAY	14	41	45	109.8
14366615	35900	70-75	2.47	8.99	0.5	0.5	21.2	30.64	8.3	CLAY	16	11	73	106.3
14366616	35901	76-76.7	2.68	10.02	1.1	0.9	24.9	25.34	7.4	CLAY	31	16	53	104.7
14366617	35902	88.2-93.2	2.91	11.26	4.1	3.4	25.2	13.02	7.7	CLAY	18	37	45	90.5