

SOILS LABORATORY - USGS - EARTH SURFACE PROCESSES TEAM -CR

Particle Size Analysis Report - Wentworth Grade Scale

Malvern Particle Size Analyzer

<2 mm MINERAL MATERIAL SIZE DISTRIBUTION - PER FRACTION

[Size Separates Expressed In Microns]

NAME: Carly York

LOCATION: Sego sandstone, Rangely Co.

Carbonates were removed, Organics were not removed.

	MICRONS		AMPFTD/1.1	AMPFTD/1.4	AMPFTD/2.3	AMPFTD/3.3	AMPFTD/4.3	AMPFTD/5.1	AMPFTD/5.4	CPFTD/1.1	CPFTD/1.5	CPFTD/1.8
VC Sand	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1414	1189	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1189	1000	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C Sand			0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1000	841	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	841	707	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	707	595	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M Sand	595	500	0.04	1.09	0.00	1.12	0.04	1.80	1.82	0.00	0.00	0.00
			0.04	2.52	0.00	1.12	0.04	1.80	1.82	0.00	0.00	0.00
	500	420	1.96	1.20	0.11	3.52	1.81	4.08	3.86	0.28	0.00	0.00
	420	354	4.77	1.17	2.01	5.79	4.26	6.44	5.97	2.65	0.59	0.57
F Sand	354	297	7.85	1.17	4.71	8.20	6.98	8.72	8.06	4.77	3.67	3.77
	297	250	10.38	1.19	7.24	9.55	9.15	9.77	9.08	6.88	6.13	6.29
			24.97	4.74	14.07	27.07	22.20	29.01	26.96	14.59	10.38	10.63
	250	210	12.21	1.47	9.62	10.04	10.64	9.90	9.35	8.85	8.83	9.08
VF Sand	210	177	12.18	2.04	10.69	9.04	10.53	8.61	8.34	9.76	10.58	10.90
	177	149	10.99	3.05	10.71	7.44	9.45	6.83	6.88	9.84	11.46	11.83
	149	125	8.81	4.52	9.55	5.49	7.54	4.83	5.18	8.96	11.12	11.50
			44.19	11.08	40.57	32.00	38.17	30.17	29.75	37.41	41.98	43.30
VF Sand	125	105	6.04	6.11	7.25	3.50	5.11	2.94	3.47	7.03	9.28	9.60
	105	88	3.77	7.76	4.87	2.08	3.05	1.68	2.27	4.97	6.94	7.15
	88	74	2.17	8.73	2.71	1.24	1.56	1.01	1.52	3.01	4.38	4.44
	74	63	1.36	8.49	1.28	0.91	0.79	0.80	1.18	1.61	2.32	2.25
VF Sand			13.33	31.09	16.12	7.72	10.52	6.42	8.45	16.62	22.92	23.43
	63	53	1.29	8.80	0.73	1.04	0.68	0.98	1.28	1.03	1.27	1.10
	53	44	1.49	8.32	0.66	1.36	0.91	1.31	1.54	0.86	0.73	0.49
	44	37	1.48	6.22	0.83	1.48	1.13	1.41	1.58	0.90	0.62	0.39
VF Sand	37	31.2	1.41	4.57	1.12	1.57	1.34	1.50	1.64	1.10	0.81	0.61
	31.2	26.3	1.24	3.21	1.38	1.61	1.46	1.54	1.67	1.28	1.06	0.90
	26.3	22.1	1.01	2.21	1.56	1.63	1.52	1.59	1.70	1.41	1.26	1.13
	22.1	18.6	0.75	1.52	1.61	1.59	1.50	1.60	1.67	1.43	1.34	1.23
VF Sand	18.6	15.6	0.59	1.20	1.65	1.62	1.51	1.69	1.70	1.45	1.38	1.26
	15.6	13.1	0.49	1.06	1.64	1.64	1.51	1.76	1.71	1.43	1.35	1.23
	13.1	11	0.48	1.05	1.65	1.68	1.55	1.84	1.75	1.44	1.32	1.20
	11	9.3	0.49	1.01	1.60	1.66	1.53	1.82	1.71	1.43	1.26	1.14
VF Sand	9.3	7.8	0.55	1.05	1.70	1.76	1.64	1.92	1.80	1.56	1.33	1.21
	7.8	6.6	0.56	0.95	1.60	1.65	1.55	1.78	1.67	1.54	1.26	1.16
	6.6	5.5	0.61	0.97	1.69	1.73	1.64	1.84	1.74	1.71	1.36	1.26
	5.5	4.6	0.58	0.88	1.55	1.56	1.50	1.64	1.57	1.66	1.27	1.19

Silt	4.6	3.9	0.51	0.75	1.30	1.29	1.25	1.34	1.29	1.48	1.08	1.03
			13.52	43.77	22.25	24.89	22.23	25.56	26.02	21.72	18.71	16.52
	3.9	3.3	0.47	0.71	1.16	1.15	1.12	1.18	1.15	1.40	0.98	0.95
	3.3	2.8	0.42	0.66	0.97	0.97	0.95	0.98	0.96	1.26	0.84	0.82
	2.8	2.3	0.44	0.73	0.96	0.96	0.95	0.96	0.95	1.32	0.84	0.82
	2.3	1.95	0.32	0.57	0.65	0.65	0.65	0.65	0.65	0.95	0.57	0.56
	1.95	1.64	0.30	0.55	0.56	0.57	0.56	0.56	0.56	0.85	0.48	0.48
	1.64	1.38	0.26	0.51	0.46	0.48	0.47	0.46	0.47	0.72	0.40	0.40
	1.38	1.16	0.25	0.48	0.41	0.43	0.41	0.41	0.41	0.63	0.35	0.35
	1.16	0.98	0.25	0.46	0.37	0.40	0.37	0.38	0.38	0.56	0.32	0.33
	0.98	0.82	0.27	0.49	0.38	0.41	0.37	0.39	0.39	0.55	0.32	0.35
	0.82	0.69	0.26	0.46	0.36	0.39	0.34	0.36	0.36	0.48	0.30	0.33
	0.69	0.58	0.25	0.42	0.32	0.35	0.30	0.32	0.32	0.42	0.27	0.30
	0.58	0.49	0.21	0.33	0.24	0.27	0.23	0.25	0.25	0.31	0.21	0.24
	0.49	0.24	0.24	0.34	0.15	0.18	0.13	0.15	0.15	0.23	0.13	0.20
	0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clay			3.95	6.70	6.99	7.19	6.85	7.05	7.00	9.67	6.00	6.11

SOILS LABORATORY - USGS - EARTH SURFACE PROCESSES TEAM -CR
Particle Size Analysis Report - Wentworth Grade Scale
Malvern Particle Size Analyzer

<2 mm MINERAL MATERIAL SIZE DISTRIBUTION - PER FRACTION
[Size Separates Expressed In Microns]

NAME: Carly York
LOCATION: Sego sandstone, Rangely Co.

Carbonates were removed, Organics were not removed.

MICRONS		CPFTD/2.1	CPFTD/3.1	CPFTD/3.4	CPFTD/4.1	TDFTD/1.1	TDFTD/1.3	TDFTD/1.4	TDFTD/1.5	TDFTD/1.7	TDFTD/1.9	MICR
2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2000
1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1680
1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1414
1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1189
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1000
841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	841
707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	707
595	500	0.00	0.00	0.00	0.00	0.15	0.02	0.00	0.10	0.46	0.02	595
		0.00	0.00	0.00	0.00	0.15	0.02	0.00	0.10	0.46	0.02	
500	420	0.00	0.00	0.00	0.00	3.22	1.43	0.30	3.58	2.83	1.38	500
420	354	0.43	0.64	0.49	0.47	5.99	4.38	2.68	6.62	6.17	4.16	420
354	297	3.49	3.83	3.49	3.54	9.24	7.95	6.83	10.13	10.50	7.08	354
297	250	6.12	6.36	6.04	5.94	11.36	11.12	11.84	12.32	13.69	9.53	297
		10.04	10.83	10.03	9.95	29.81	24.88	21.65	32.65	33.19	22.16	
250	210	9.04	9.13	8.87	8.63	12.44	13.34	15.98	13.33	15.05	11.38	250
210	177	11.04	10.88	10.77	10.37	11.53	13.11	16.33	12.19	13.21	11.53	210
177	149	12.09	11.68	11.71	11.23	9.60	11.22	13.50	10.00	9.73	10.58	177
149	125	11.80	11.19	11.31	10.86	6.98	8.14	8.73	7.15	5.70	8.62	149
		43.97	42.88	42.66	41.09	40.56	45.82	54.53	42.67	43.69	42.11	
125	105	9.83	9.17	9.30	9.01	4.16	4.69	4.05	4.18	2.37	5.93	125
105	88	7.25	6.70	6.78	6.68	2.03	2.13	1.26	2.02	0.59	3.54	105
88	74	4.42	4.10	4.10	4.17	0.73	0.64	0.16	0.76	0.03	1.70	88
74	63	2.17	2.10	2.04	2.20	0.25	0.12	0.00	0.34	0.00	0.69	74
		23.68	22.08	22.22	22.06	7.17	7.57	5.47	7.31	3.00	11.86	
63	53	1.00	1.13	1.03	1.23	0.32	0.15	0.00	0.47	0.04	0.43	63
53	44	0.42	0.70	0.59	0.78	0.68	0.53	0.18	0.85	0.48	0.59	53
44	37	0.39	0.68	0.61	0.73	0.97	0.91	0.64	1.08	0.90	0.86	44
37	31.2	0.67	0.91	0.88	0.95	1.16	1.16	0.97	1.19	1.16	1.12	37
31.2	26.3	0.99	1.15	1.17	1.22	1.24	1.26	1.12	1.17	1.25	1.28	31.2
26.3	22.1	1.23	1.32	1.38	1.43	1.25	1.26	1.11	1.07	1.24	1.34	26.3
22.1	18.6	1.30	1.34	1.43	1.50	1.19	1.16	1.00	0.93	1.16	1.30	22.1
18.6	15.6	1.31	1.32	1.44	1.54	1.18	1.12	0.93	0.85	1.13	1.28	18.6
15.6	13.1	1.24	1.24	1.39	1.50	1.18	1.09	0.90	0.80	1.12	1.25	15.6
13.1	11	1.18	1.20	1.36	1.48	1.21	1.12	0.94	0.80	1.15	1.26	13.1
11	9.3	1.11	1.14	1.30	1.42	1.20	1.13	0.97	0.79	1.14	1.25	11
9.3	7.8	1.16	1.20	1.37	1.49	1.28	1.24	1.09	0.84	1.22	1.34	9.3
7.8	6.6	1.11	1.16	1.31	1.41	1.20	1.19	1.06	0.79	1.14	1.28	7.8
6.6	5.5	1.20	1.26	1.41	1.50	1.25	1.27	1.13	0.82	1.17	1.35	6.6
5.5	4.6	1.13	1.20	1.32	1.38	1.12	1.16	1.02	0.74	1.03	1.23	5.5

4.6	3.9	0.98	1.05	1.12	1.17	0.92	0.96	0.83	0.61	0.82	1.03	4.6
		16.43	17.99	19.09	20.73	17.35	16.71	13.90	13.80	16.13	18.17	
3.9	3.3	0.90	0.97	1.01	1.04	0.81	0.85	0.71	0.54	0.69	0.91	3.9
3.3	2.8	0.78	0.84	0.86	0.88	0.68	0.71	0.58	0.46	0.55	0.77	3.3
2.8	2.3	0.78	0.86	0.85	0.86	0.67	0.70	0.55	0.46	0.51	0.77	2.8
2.3	1.95	0.54	0.60	0.57	0.57	0.46	0.47	0.37	0.32	0.33	0.52	2.3
1.95	1.64	0.46	0.52	0.48	0.48	0.40	0.41	0.32	0.28	0.27	0.45	1.95
1.64	1.38	0.38	0.43	0.38	0.39	0.34	0.34	0.28	0.23	0.21	0.38	1.64
1.38	1.16	0.34	0.38	0.33	0.34	0.30	0.29	0.26	0.21	0.18	0.34	1.38
1.16	0.98	0.32	0.34	0.30	0.32	0.27	0.26	0.26	0.19	0.17	0.31	1.16
0.98	0.82	0.34	0.35	0.32	0.33	0.28	0.27	0.28	0.20	0.17	0.32	0.98
0.82	0.69	0.32	0.32	0.30	0.31	0.25	0.24	0.26	0.19	0.16	0.29	0.82
0.69	0.58	0.29	0.28	0.27	0.29	0.23	0.21	0.24	0.17	0.14	0.26	0.69
0.58	0.49	0.24	0.21	0.21	0.22	0.17	0.16	0.19	0.13	0.10	0.21	0.58
0.49	0.24	0.20	0.13	0.13	0.14	0.10	0.09	0.15	0.08	0.05	0.13	0.49
0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
		5.89	6.22	6.00	6.16	4.96	5.00	4.45	3.46	3.53	5.67	

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Particle Size Analysis Report - Wentworth Grade Scale

Malvern Particle Size Analyzer

<2 mm MINERAL MATERIAL SIZE DISTRIBUTION - PER FRACTION

[Size Separates Expressed In Microns]

NAME: Carly York

LOCATION: Sego sandstone, Rangely Co.

Carbonates were removed, Organics were not removed.

IONS	TDFTD/1.12	DD/1.1 t	DD/1.2 t	DD/1.3_sf	DD/1.4 t	DD/1.5 t	DD/1.6 t	DD/1.7_sf	DD/1.8_sf	DD/1.9_sf
1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
420	0.35	0.00	0.10	0.10	0.24	0.00	0.00	0.01	0.80	0.00
354	3.57	0.83	1.96	1.90	2.97	1.00	0.00	0.01	3.78	0.00
297	6.47	2.92	4.72	4.56	5.47	4.41	0.50	0.03	6.75	1.43
250	9.21	4.75	7.30	7.04	7.91	7.70	3.16	0.06	9.34	4.20
	19.60	8.50	14.08	13.60	16.59	13.11	3.66	0.11	20.68	5.63
210	11.40	6.69	9.75	9.36	9.98	11.12	7.04	1.21	11.35	6.89
177	11.89	8.01	10.90	10.42	10.68	13.08	11.30	4.02	11.69	9.07
149	11.19	8.80	11.00	10.49	10.42	13.57	14.86	6.98	10.94	10.52
125	9.33	8.81	9.92	9.48	9.18	12.24	16.19	10.06	9.17	10.83
	43.81	32.30	41.57	39.74	40.27	50.01	49.39	22.27	43.15	37.31
105	6.57	7.74	7.64	7.40	7.04	9.16	14.07	12.09	6.59	9.53
88	4.01	6.28	5.25	5.25	4.99	5.86	10.12	12.90	4.23	7.53
74	1.96	4.49	3.03	3.24	3.24	2.92	5.54	11.64	2.31	5.06
63	0.78	2.88	1.51	1.83	2.10	1.07	2.19	8.79	1.16	2.92
	13.31	21.40	17.43	17.72	17.38	19.01	31.92	45.42	14.30	25.05
53	0.41	2.11	0.88	1.28	1.86	0.30	0.62	6.68	0.81	1.81
44	0.52	1.64	0.74	1.15	1.98	0.12	0.04	4.16	0.87	1.20
37	0.79	1.34	0.86	1.17	1.97	0.36	0.00	1.78	1.01	0.99
31.2	1.07	1.35	1.12	1.35	2.01	0.73	0.07	0.67	1.19	1.15
26.3	1.26	1.45	1.36	1.52	1.93	1.02	0.44	0.33	1.29	1.39
22.1	1.35	1.57	1.52	1.63	1.74	1.17	0.79	0.48	1.32	1.60
18.6	1.33	1.60	1.54	1.62	1.45	1.15	0.94	0.81	1.24	1.66
15.6	1.32	1.64	1.55	1.62	1.21	1.07	0.93	1.13	1.17	1.68
13.1	1.28	1.62	1.49	1.57	1.00	0.95	0.79	1.29	1.10	1.62
11	1.28	1.63	1.46	1.56	0.90	0.89	0.66	1.31	1.07	1.58
9.3	1.25	1.58	1.38	1.49	0.84	0.84	0.56	1.19	1.02	1.50
7.8	1.33	1.69	1.44	1.56	0.90	0.90	0.58	1.14	1.06	1.57
6.6	1.26	1.63	1.34	1.45	0.88	0.88	0.59	1.00	0.99	1.49
5.5	1.33	1.77	1.41	1.52	0.96	0.97	0.71	1.02	1.04	1.60
4.6	1.21	1.69	1.30	1.37	0.91	0.93	0.76	0.96	0.95	1.49

3.9	1.01	1.48	1.09	1.14	0.78	0.80	0.72	0.86	0.80	1.28
	18.02	25.82	20.49	23.00	21.33	13.07	9.19	24.78	16.94	23.60
3.3	0.89	1.39	0.98	1.01	0.71	0.74	0.71	0.83	0.72	1.17
2.8	0.74	1.24	0.83	0.84	0.60	0.64	0.65	0.76	0.61	1.01
2.3	0.72	1.31	0.83	0.81	0.60	0.64	0.69	0.82	0.62	1.03
1.95	0.48	0.96	0.57	0.54	0.41	0.44	0.49	0.59	0.43	0.72
1.64	0.41	0.88	0.49	0.46	0.35	0.39	0.44	0.54	0.38	0.63
1.38	0.33	0.79	0.41	0.37	0.29	0.33	0.38	0.47	0.32	0.55
1.16	0.30	0.76	0.37	0.33	0.27	0.30	0.36	0.45	0.30	0.51
0.98	0.27	0.75	0.35	0.31	0.25	0.27	0.35	0.45	0.28	0.49
0.82	0.29	0.82	0.38	0.33	0.26	0.28	0.39	0.51	0.30	0.53
0.69	0.27	0.80	0.36	0.31	0.24	0.26	0.38	0.51	0.29	0.51
0.58	0.25	0.77	0.34	0.28	0.22	0.23	0.36	0.50	0.27	0.48
0.49	0.19	0.65	0.27	0.22	0.16	0.18	0.29	0.43	0.22	0.39
0.24	0.12	0.86	0.25	0.13	0.10	0.11	0.33	0.56	0.20	0.41
0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.27	11.99	6.43	5.94	4.44	4.81	5.83	7.40	4.94	8.42