

APPENDIX D. PHYSICAL LABORATORY RESULTS

Map Unit	Site Number	Laboratory Number	Horizon	Horizon Depth mm	Air Dry Water Content %	Particle Size Distribution							Emerson Class	Atterberg Limits			
						Gravel > 2mm %	Coarse sand %	Fine Sand %	Silt %	Clay %	Total Fine Earth %	Fines < 0.074 mm %		Liquid Limit %	Plastic Limit %	Plasticity Index %	Linear Shrinkage %
Qa1	S 9	940542	A11	220	1.32	6	5	47	31	17	100	79	E8				
Qa1	S 9	940543	A12	340	0.99	9	5	47	29	18	99	81	E3(4)				
Qa1	S 9	940544	B2	700	1.18	17	4	46	24	23	98	79	E3(4)	24	17	7	6
Qa1	S 9	940545	B3	1120	0.99	3	14	47	18	18	98	60	E3(4)				
Qap	S 8	940538	A1	130	0.69	0	15	47	27	11	99	70	E8				
Qap	S 8	940539	A2	220	0.30	7	12	46	33	11	101	74	E2(1)				
Qap	S 8	940540	B2	770	3.59	33	2	17	30	51	99	95	E3(4)	48	18	30	11
Qap	S 8	940541	B31	1060	1.20	31	5	55	18	19	98	70	E2(3)				
Qbd	S11	940546	A1	70	5.23	10	12	36	25	24	97	72	E8				
Qbd	S11	940547	B2	200	8.25	61	21	32	22	25	99	67	E3(1)	49	30	19	13
Qbp	S12	940548	A1	80	5.61	12	9	32	15	41	97	78	E8				
Qbp	S12	940549	B2	510	8.77	45	3	19	11	64	97	89	E3(4)	77	26	51	10
Tff	M22	N/A	A1	145	1.00	44							E2(2)				
Tff	M22	N/A	A2	445	1.00	19							E2(2)				
Tff	M22	N/A	B	1120	1.90	34							E5(D)	38	20	18	12
Tsf	M19	911300	A1	80	1.9	5	9	61	12	18	100		E3(2)				
Tsf	M19	911301	A2	170	1.2	9	12	62	13	13	100		E3(3)				
Tsf	M19	911302	B21	305	2.4	11	8	51	12	29	100	69	E1	32	28	3	10
Tsf	M19	911303	B22	800	2.5	10	7	50	9	34	100		E1	35	16	19	12
Dga	S 1	940520	A11	120	1.49	20	45	30	12	12	99	37	E8				
Dga	S 1	940521	A12	460	1.12	42	43	33	15	8	99	39	E3(1)	25	22	4	4
Dgf	S 4	940525	A1	180	1.88	13	32	38	12	17	99	51	E7				
Dgf	S 4	940526	A2	620	0.19	40	50	34	6	10	100	35	E3(2)				
Dgf	S 4	940527	B2	1000	3.66	53	24	20	4	48	97	63	E2(1)	58	19	39	14
Dgh	S 3	940522	A1	80	2.24	1	38	28	15	18	100	48	E7				
Dgh	S 3	940523	B1	285	1.49	4	42	27	14	16	99	47	E7				
Dgh	S 3	940524	B21	400	0.90	35	45	29	13	13	99	44	E3(1)	22	17	5	5
Osc	S 7	940535	A1	80	2.87	21	17	30	28	20	96	63	E8				
Osc	S 7	940536	B2	240	1.41	36	10	24	40	25	99	80	E3(3)	26	20	6	5
Osc	S 7	940537	B3	360	2.22	55	5	11	38	44	98	89	E2(1)				
Osf	S 5	940528	A1	80	0.69	3	42	43	3	9	98	29	E8				
Osf	S 5	940529	A2	210	0.10	13	42	48	4	5	99	29	E3(2)				
Osf	S 5	940530	B2	680	5.21	20	11	12	3	73	99	81	E1	71	26	45	16
Osh	S13	940550	A11	60	0.91	2	42	42	9	6	99	31	E8				
Osh	S13	940551	A12	170	0.80	9	21	51	16	12	99	55	E8				
Osh	S13	940552	A2	480	0.10	3	28	55	10	6	99	46	E3(2)				
Osh	S13	940553	B2	610	1.29	15	16	50	10	24	100	60	E2(1)	19	14	5	5

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				pH H ₂ O	pH CaCl ₂	EC ds/m										Ca++ meq/100g	Mg++ meq/100g	K+ meq/100g	Na+ meq/100g						
Qa1	S 9 940542		A11	5.5	4.4	<0.05	6	<0.05	0.02	2.43	0.16	204	5.7	23	20	2.9	1.1	0.5	0.1	4.6	2.6	9.0	13.6		
Qa1	S 9 940543		A12	5.9	4.6	<0.05	5	<0.05	0.02	1.92	0.10	116	2.1	6	21	3.5	1.2	0.3	0.1	5.1	2.9	7.1	12.2		
Qa1	S 9 940544		B2	6.5	5.2	<0.05	2	<0.05	0.02	1.62	0.08	85	<1	<5	11	4.0	1.9	0.2	0.1	6.2	2.1	4.1	10.3		
Qa1	S 9 940545		B3	7.1	5.9	<0.05	1	<0.05	0.02	0.55	<0.05	90	3.5	<5	<5	2.6	1.6	0.2	0.1	4.5	1.6	2.9	7.4		
Qap	S 8 940538		A1	5.1	4	<0.05	6	<0.05	0.02	1.71	0.12	158	7.8	60	24	0.5	0.2	0.4	0.1	1.2	2.5	8.0	9.2		
Qap	S 8 940539		A2	5.6	4.3	<0.05	2	<0.05	0.02	0.50	<0.05	108	2.1	16	16	0.7	0.5	0.3	0.1	1.6	1.4	3.3	4.9		
Qap	S 8 940540		B2	6.5	5.2	<0.05	5	<0.05	0.02	0.49	0.05	240	<1	<5	<5	3.8	7.4	0.9	0.6	12.7	0.5	6.7	19.4		
Qap	S 8 940541		B31	7.5	6.3	0.12	1	<0.05	0.04	0.25	<0.05	114	<1	<5	<5	1.4	4.4	0.3	1.1	7.2	0.3	2.3	9.5		
Qbd	S11 940546		A1	5.4	4.8	0.18	8	<0.05	0.06	6.12	0.46	788	5.9	8	38	11.0	5.8	2.3	0.2	19.3	1.9	17.8	37.1		
Qbd	S11 940547		B2	6.5	5.5	<0.05	7	<0.05	0.02	2.07	0.17	351	2.8	<5	<5	17.0	10.5	1.1	0.4	29.0	1.6	11.1	40.1		
Qbp	S12 940548		A1	6.4	5.5	0.06	6	<0.05	0.02	4.45	0.26	416	3.5	<5	16	14.0	9.5	1.2	0.4	25.1	1.5	9.0	34.1		
Qbp	S12 940549		B2	8.1	6.7	0.05	3	<0.05	0.02	0.93	0.07	217	<1	<5	<5	18.0	17.8	0.8	1.8	38.4	1.0	5.6	44.0		
Tff	M22 N/A		A1	6.2		0.05																			
Tff	M22 N/A		A2	5.3		<0.05																			
Tff	M22 N/A		B	4.6		0.45																			
Tsf	M19 911300		A1	5.4		0.08		<0.05		4.07	0.17	177	2.2	68	6	2.3	3.5	0.4	0.2	6.4	0.7	17.1	23.5		
Tsf	M19 911301		A2	5.4		0.1		<0.05		1.65	0.07	98	<1.0	59	<5	1	3.6	0.2	0.2	5	0.3	10.4	15.4		
Tsf	M19 911302		B21	5.8		0.24		<0.05		1.1	0.06	138	<1.0	13	<5	1	7.1	0.3	1	9.4	0.1	8.5	17.9		
Tsf	M19 911303		B22	8		0.64		<0.05		0.68	<0.05	181	<1.0	<5	<5	1.3	9.9	0.6	3.7	15.5	0.1	2.4	17.9		
Dga	S 1 940520		A11	5.9	5	0.09	6	<0.05	0.03	4.47	0.38	471	6.7	6	13	4.4	0.8	1.3	0.1	6.6	5.5	9.7	16.3		
Dga	S 1 940521		A12	5.3	4.2	<0.05	5	<0.05	0.02	1.31	0.07	336	2.3	84	9	1.5	0.5	0.8	0.1	2.9	3.0	7.2	10.1		

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				pH H ₂ O	pH CaCl ₂	EC ds/m										Ca ++ meq/100g	Mg++ meq/100g	K+ meq/100g	Na+ meq/100g				
Dgf	S 4	940525	A1	6	4.7	<0.05	6	<0.05	0.02	3.47	0.22	91	2.1	<5	35	2.8	1.5	0.2	0.3	4.8	1.9	9.8	14.6
Dgf	S 4	940526	A2	6.6	5.2	<0.05	1	<0.05	0.02	0.44	<0.05	38	<1	<5	<5	0.7	0.5	0.1	0.1	1.4	1.4	2.2	3.6
Dgf	S 4	940527	B2	6.1	4.5	<0.05	5	<0.05	0.02	0.24	<0.05	45	<1	<5	<5	1.7	6.7	0.2	1.3	9.9	0.3	7.5	17.4
Dgh	S 3	940522	A1	5.9	5	0.06	7	<0.05	0.02	4.81	0.32	191	3.1	8	34	3.9	2.6	0.4	0.2	7.1	1.5	10.3	17.4
Dgh	S 3	940523	B1	6.2	5	<0.05	5	<0.05	0.02	2.44	0.13	84	2.6	<5	24	2.7	2.2	0.2	0.1	5.2	1.2	7.1	12.3
Dgh	S 3	940524	B21	6.4	5	<0.05	3	<0.05	0.02	1.61	0.06	60	1.6	<5	13	1.6	1.6	0.1	0.1	3.4	1.0	4.8	8.2
Osc	S 7	940535	A1	5.3	4.3	0.05	8	<0.05	0.02	7.21	0.49	196	4.5	54	23	3.7	2.8	0.5	0.2	7.2	1.3	19.4	26.6
Osc	S 7	940536	B2	5.9	4.5	<0.05	6	<0.05	0.02	1.52	0.11	65	<1	101	<5	0.7	2.0	0.2	0.2	3.1	0.3	9.8	12.9
Osc	S 7	940537	B3	6.2	4.7	<0.05	6	<0.05	0.02	1.01	0.09	112	<1	<5	<5	0.5	4.8	0.3	0.3	5.9	0.1	8.4	14.3
OsF	S 5	940528	A1	5.9	4.6	<0.05	3	<0.05	0.02	2.92	0.15	171	8.1	8	5	1.6	0.6	0.3	0.1	2.6	2.7	4.6	7.2
OsF	S 5	940529	A2	6.3	4.8	<0.05	1	<0.05	0.02	0.54	<0.05	41	<1	<5	<5	0.2	0.2	0.1	0.1	0.6	1.0	<0.4	0.6
OsF	S 5	940530	B2	8.1	7.1	0.29	2	<0.05	0.09	0.46	<0.05	199	<1	<5	<5	1.6	12.2	0.8	4.1	18.7	0.1	3.9	22.6
Osh	S13	940550	A11	6.5	5.7	0.13	3	<0.05	0.04	3.23	0.17	444	9.9	<5	10	3.9	1.6	0.9	0.2	6.6	2.4	4.3	10.9
Osh	S13	940551	A12	6.3	5.6	0.31	2	0.07	0.10	1.81	0.08	307	1.2	<5	8	2.6	2.5	0.8	0.9	6.8	1.0	3.6	10.4
Osh	S13	940552	A2	8.2	7	0.15	1	<0.05	0.05	0.39	<0.05	141	<1	<5	<5	0.4	0.9	0.3	0.7	2.3	0.4	<0.4	2.3
Osh	S13	940553	B2	7.8	7.1	0.66	1	0.14	0.20	0.44	<0.05	336	<1	<5	<5	0.7	3.6	1.1	3.0	8.4	0.2	1.3	9.7