

Soil	Soil 01-116	Soil 01-117	Soil 01-118	Soil 01-119	Soil 01-120							
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity												
Sat. Paste Moisture	%	35	31.1	1.9	55.3	9.6	26.9	2.1	52.1	3.5	22.0	1.5
pH - sp	Unit	44	7.80	0.15	7.57	0.13	7.70	0.20	5.20	0.20	4.50	0.11
Ece - sp	dS/m	46	1.14	0.14	1.10	0.09	0.60	0.08	0.15	0.03	0.40	0.05
HCO ₃ - sp	mmol/L	13	4.05	0.98	3.45	0.45	3.63	1.09	0.60	0.40	0.50	0.21
Ca - sp	mmol/L	38	5.78	0.74	9.2	1.05	3.28	0.48	0.34	0.14	1.54	0.24
Mg - sp	mmol/L	38	2.91	0.31	2.00	0.25	1.14	0.17	0.17	0.04	0.55	0.09
Na - sp	mmol/L	39	2.04	0.32	0.35	0.13	0.70	0.22	0.31	0.15	0.40	0.16
SAR - sp	value	35	0.95	0.11	0.13	0.04	0.40	0.10	0.58	0.22	0.37	0.14
Cl - sp	mmol/L	24	4.45	0.74	0.37	0.15	0.50	0.17	0.46	0.07	0.20	0.10
SO ₄ - sp	mmol/L	24	1.73	0.19	1.23	0.20	0.80	0.14	0.48	0.07	0.38	0.08
B - sp	mg/L	22	0.12	0.02	0.10	0.03	0.09	0.02	0.030	0.015	0.070	0.028
Soil EC												
Soil EC (1:1)	(dS/m)	33	0.40	0.03	0.52	0.08	0.18	0.06	0.08	0.01	0.10	0.03
Soil EC (1:2)	(dS/m)	44	0.26	0.04	0.36	0.06	0.13	0.03	0.07	0.02	0.07	0.02
Soil pH												
pH (1:1)	Unit	94	8.10	0.10	7.86	0.09	8.02	0.10	5.30	0.08	4.72	0.09
pH (1:2)	Unit	37	8.20	0.13	7.90	0.20	8.12	0.12	5.30	0.13	4.80	0.20
pH (1:1) 0.01M CaCl ₂	Unit	20	7.61	0.05	7.48	0.11	7.39	0.08	4.70	0.12	4.10	0.10
pH (1:2) 0.01M CaCl ₂	Unit	12	7.52	0.22	7.44	0.16	7.24	0.15	4.60	0.11	4.11	0.12
Buffer pH												
SMP Buffer pH	Unit	41	7.51	0.06	7.49	0.06	7.50	0.04	6.70	0.09	6.60	0.10
Adams-Evans Buf pH	Unit	12	7.86	0.03	7.82	0.03	7.95	0.03	7.44	0.06	7.58	0.05
Woodruff Buf. pH	Unit	10	7.10	0.04	7.13	0.07	7.03	0.03	6.50	0.09	6.47	0.04
Mehlich Buf. pH	Unit	2	6.75	0.05	6.75	0.02	6.65	0.04	6.09	0.03	6.04	0.02

1 - Values flagged exceed Warning Limits " " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " " based on 4 x MAD.

Soil	Soil 01-116	Soil 01-117	Soil 01-118	Soil 01-119	Soil 01-120							
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab		
Nitrate (NO₃-N)												
Cd. Rd.	mg/kg	56	11.2	1.3	62.5	4.6	5.6	0.97	1.0	0.50	10.0	1.6
ISE	mg/kg	26	11.0	1.8	48.5	13.1	6.0	1.0	2.2	1.0	9.9	1.6
CTA	mg/kg	7	11.5	1.0	63.0	5.0	6.1	0.72	1.1	0.05	8.6	0.50
Ion Chromatography	mg/kg	5	13.0	1.7	63.0	13.8	8.0	2.65	2.6	0.34	12.0	2.3
Other	mg/kg	12	11.1	2.2	55.5	10.4	6.0	1.1	1.6	1.4	9.5	2.2
NH ₄ - N (KCl Extr.)	mg/kg	50	25.3	2.7	6.7	1.5	11.0	2.0	14.0	2.6	4.9	1.3
Phosphorus & Sulfur												
PO ₄ -P Bray P1 (1:10)	mg/kg	48	57.8	4.2	2.0	1.0	28.0	3.0	3.0	1.0	38.0	4.2
PO ₄ -P Bray P1 (1:7)	mg/kg	13	46.0	5.5	2.0	1.0	21.6	4.8	2.0	0.00	30.0	7.0
PO ₄ -P Olsen/Bicarb	mg/kg	74	25.0	2.1	8.5	2.5	12.9	1.6	2.3	0.9	16.0	2.0
PO ₄ -P AB-DTPA	mg/kg	3	14.5	3.5	6.6	2.9	11.5	3.0	3.2	0.3	12.0	7.4
PO ₄ -P M. Morgan	mg/kg	8	32.0	3.0	18.4	2.9	19.5	2.65	1.2	0.2	4.5	0.6
PO ₄ -P M. Kewlona	mg/kg	3	38.7	2.7	13.3	3.1	20.4	2.9	1.9	1.5	24.0	2.8
PO ₄ -P Strg Bray P-2	mg/kg	9	127	10.7	32.0	17	38.0	2.0	5.0	1.3	42	3.0
SO ₄ -S (PO ₄ Extr.)	mg/kg	49	9.8	1.8	11.0	4.1	5.0	1.3	63.3	43.3	5.0	2.0
Ammonium Ace. Bases												
K	mg/kg	100	437	38	200	47	179	21	101	11	121	14
Ca	mg/kg	93	1980	181	5880	1051	1160	137	279	48	286	56
Mg	mg/kg	93	358	37	400	80	108	17	72	9	43	10
Na	mg/kg	74	45.5	8.5	16.2	6.2	15.5	4.3	14.0	5.8	11.3	4.8
K - Bray (1:10)	mg/kg	3	402	44	175	28	215	47	105	14	144	26
K - Bicarb.	mg/kg	9	337	6	191	26	163	15	95	7	101	13
K Modified Morgan	mg/kg	5	372	104.0	198	31	158	26	106	4	102	28
Ca Modified Morgan	mg/kg	3	2426	662	33621	17209	1164	391	286	34	238	91
Al KCL Extr.	mg/kg	7	0.58	0.41	0.25	0.22	1.05	0.93	24.4	9.4	55.9	5.3

1 - Values flagged exceed Warning Limits " * " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " based on 4 x MAD.



Soil Analysis Units Median MAD Lab¹ Median MAD Lab Median MAD Lab Median MAD Lab

Soil 01-116

Soil 01-117

Soil 01-118

Soil 01-119

Soil 01-120

Mehlich-1 Multi Element

Soil Scoop Mass	g	15	5.15	0.19	4.40	0.60	5.42	0.43	5.00	0.57	5.55	0.63
P	mg/kg	15	90	6.5	7.0	1.0	31.5	2.5	1.6	0.6	19.1	3.0
K	mg/kg	15	298	27.3	81	23.1	143	8.3	75	8.7	76	11.0
Ca	mg/kg	14	2160	239	5640	1720	1280	79	219	68	191	40
Mg	mg/kg	14	360	25	394	70	116	12.0	64	4.9	32	5.2
Zn	mg/kg	13	2.31	0.35	0.13	0.07	1.59	0.31	0.67	0.23	1.05	0.22

Mehlich-3 Multi-Element

Soil Scoop Mass	g	37	2.53	0.73	1.50	0.38	2.69	0.85	2.20	0.64	2.89	0.89
Scoop Volume	mL	20	2.00	0.50	2.00	0.60	2.00	0.50	2.00	1.12	5.00	0.50

P	Colorimetric	mg/kg	18	66.3	4.3	22.8	2.2	30.0	4.0	3.0	1.0	35.0	5.0
P	ICP	mg/kg	34	76.1	6.8	25.5	4.5	40.0	4.6	2.5	0.9	57	7.4
K		mg/kg	49	506	43.2	179	28	213	22.6	107	9	141	12
Ca		mg/kg	48	2600	186	9820	1404	1510	159	315	49	337	45
Mg		mg/kg	48	447	39	572	113	155	17.5	81	8	53	10
Na		mg/kg	26	51.6	6.0	26.0	8.0	17.0	6.3	16.9	9.6	13.2	6.2
S		mg/kg	25	19	2.7	24.8	6.7	13.7	4.0	136	14.0	13.9	3.4
Al		mg/kg	19	396	29	35.2	16.0	183	23	1160	77	627	74
Zn		mg/kg	39	3.50	0.54	4.99	0.78	2.29	0.42	0.66	0.21	1.78	0.37
Mn		mg/kg	37	87.3	11.7	195	44	37.3	7.2	44.8	5.3	27.7	3.0
Fe		mg/kg	35	51	6.3	73	20	40	7.6	44	8.3	96	16
Cu		mg/kg	37	1.85	0.25	4.38	0.84	0.50	0.18	0.50	0.15	0.31	0.11
B		mg/kg	32	1.21	0.18	4.07	0.57	0.83	0.15	0.25	0.07	0.20	0.10

1 - Values flagged exceed Warning Limits " * " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " based on 4 x MAD.

Soil	Soil 01-116	Soil 01-117	Soil 01-118	Soil 01-119	Soil 01-120							
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab		
Micronutrients												
Zn - DTPA	mg/kg	87	1.10	0.18	1.68	0.31	0.76	0.13	0.21	0.03	1.00	0.19
Mn - DTPA	mg/kg	76	2.5	0.80	3.2	2.4	1.39	0.61	10.0	1.4	19.1	3.7
Fe - DTPA	mg/kg	79	4.0	0.90	10.1	3.1	4.8	1.2	5.0	1.2	38.1	7.9
Cu - DTPA	mg/kg	78	0.78	0.08	1.40	0.30	0.14	0.04	0.16	0.06	0.30	0.08
Zn - HCl	mg/kg	10	3.75	0.55	0.38	0.37	2.00	0.39	1.01	0.31	2.35	0.35
Mn-H ₃ PO ₄	mg/kg	10	13.6	4.5	1.6	1.5	6.3	1.4	20.4	1.20	16.3	1.7
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	18	51.0	6.4	5.0	1.5	6.1	2.1	12.5	2.7	2.7	1.7
B - Hot Water	mg/kg	58	0.63	0.16	1.17	0.44	0.48	0.15	0.24	0.08	0.21	0.09
B - DTPA-Sorb	mg/kg	9	0.60	0.13	1.50	0.33	0.30	0.10	0.15	0.05	0.14	0.06
Soil Organic Matter												
Soil Kjeldahl N	%	25	0.080	0.009	0.500	0.031	0.077	0.009	0.060	0.010	0.054	0.006
Soil TN (combustion)	%	30	0.080	0.010	0.526	0.035	0.074	0.014	0.054	0.009	0.052	0.013
Soil TOC (combustion)	%	19	0.65	0.03	7.43	0.42	0.76	0.07	0.66	0.04	0.50	0.04
SOM - Walkley-Black	%	62	1.10	0.10	8.10	2.30	1.39	0.18	1.20	0.20	0.98	0.18
SOM - LOI (Raw Values)	%	73	1.34	0.16	9.52	0.78	1.30	0.11	3.00	0.20	0.90	0.10
CaCO ₃ Content	%	22	0.83	0.43	14.2	1.6	0.38	0.16	0.14	0.06	0.15	0.06
Soil CEC	mmol/kg	31	11.2	1.4	30.6	5.4	4.9	0.96	7.3	2.2	4.3	0.95
Particle Size Analysis												
Sand 2000 - 50 um	%	56	72.7	2.3	30.0	5.3	90.0	2.0	45.5	3.5	87.0	2.0
Silt 50 - 2 um	%	56	12.0	2.1	47.0	5.0	6.0	2.0	15.0	2.8	7.0	1.7
Clay 2 - 0 um	%	56	15.0	1.0	22.1	4.3	4.0	1.0	38.6	2.6	6.0	1.5

1 - Values flagged exceed Warning Limits " * " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " based on 4 x MAD.