

Supplementary material

**Accumulation of sulfidic sediments in a channelised inland river system,
Southern Australia**

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In addition to the tables below, supplementary geospatial data are available as in the Sites_all3.csv KZF file.

Table S1. Analytical data for acid sulfate soil assessment of Site 1

Profile	Depth (cm)	Soil texture	pH _(w)	pH _(inc)	SO ₄ ²⁻ (mmol kg ⁻¹)	TAA (mol H ⁺ Mg ⁻¹)	S _{CR} (mmol kg ⁻¹)	ANC (% CaCO ₃)	Net acidity (mol H ⁺ Mg ⁻¹)	AVS (mmol kg ⁻¹)	TOC (%)	Eh _(field)	pH _(field)
P1	0–5	Silty Sand	6.21	5.97 ^A	4.96	3.6	0.0	0.0	3.6	0.0	1.10	–31	6.88
	5–10	Medium–Coarse Sand	5.65	5.45 ^A	2.91	3.5	12.6	0.0	28.6	3.9	0.91	–100	6.61
	10–20	Medium–Coarse Sand	5.42	3.45 ^A	3.15	0.0	8.3	0.4	–30.7	0.0	0.43	58	6.39
	20–40	Granular Very Coarse Sand	6.33	3.25	5.15	3.8	20.6	0.0	45.0	0.0	0.50	33	6.10
P2	0–5	Silty Sand	5.64	4.60 ^A	6.60	3.7	13.6	0.0	30.9	3.1	0.11	–68	6.63
	5–10	Coarse Sand	5.65	3.37	4.48	8.3	11.2	0.0	30.7	0.0	1.31	–14	6.54
	10–20	Clayey Medium Sand	5.95	3.44 ^A	9.12	15.1	25.0	0.0	65.1	0.0	2.14	–57	6.80
	20–40	Clayey Medium Sand	5.83	3.44 ^A	7.81	16.5	25.3	0.0	67.0	4.8	0.61	–5	6.57
	40–44	Granular Very Coarse Sand	5.3	3.22	3.46	1.6	4.0	0.0	9.6	0.0	0.57	–198	5.83
P3	0–5	Silty Sand	6.37	5.96	12.35	28.5	7.8	0.0	44.1	3.7	0.34	–53	6.18
	5–10	Silty Sand	6.31	3.94 ^A	7.95	14.5	7.7	0.0	29.8	4.4	1.95	–119	6.78
	10–20	Medium–Coarse Sand	6.19	2.90 ^A	5.57	0.0	8.6	0.4	–38.9	8.6	1.18	–32	6.46
	20–40	Medium–Coarse Sand	6.02	3.10 ^A	2.47	0.0	47.6	0.5	35.0	0.0	0.39	36	6.30
	40–54	Very Coarse Sand	5.54	3.53	2.74	0.0	4.9	0.4	–48.5	0.0	0.09	137	6.32
P4	0–5	Medium–Coarse Sand	6.77	4.44 ^A	4.60	3.5	5.1	0.0	13.6	0.0	0.38	–123	6.73
	5–10	Medium–Coarse Sand	6.09	3.95 ^A	2.55	0.0	9.0	0.5	–42.1	9.0	0.79	–90	6.49
	10–20	Medium–Coarse Sand	6.72	4.17 ^A	2.55	3.2	0.0	0.0	3.2	0.0	0.15	0	6.58
	20–40	Medium–Coarse Sand	6.22	4.3	2.44	13.8	6.3	0.0	26.4	0.0	0.50	–28	6.37
	40–55	Granular Coarse Sand	6.16	3.16 ^A	2.36	3.7	14.7	0.0	33.0	0.0	1.35	–60	6.18
P5	0–5	Coarse Sand	6.17	4.53 ^A	4.59	0.0	0.0	0.5	–63.3	0.0	0.53	74	5.74
	5–10	Coarse Sand	5.66	4.15 ^A	3.50	0.0	5.1	0.5	–49.4	0.0	0.23	144	5.29
	10–20	Coarse Sand	5.56	3.75 ^A	2.74	0.0	11.9	0.5	–41.2	0.0	0.09	213	5.26
	20–40	Granular Coarse Sand	6.3	3.61 ^A	2.44	0.0	0.0	0.4	–57.2	0.0	0.10	45	6.07
P6	0–5	Silty Sand	6.54	5.56 ^A	6.27	8.0	0.0	0.0	8.0	0.0	0.94	–115	6.70
	5–10	Medium–Coarse Sand	6.73	4.30 ^A	4.24	2.5	5.0	0.0	12.5	0.0	0.26	–98	6.47
	10–20	Coarse Sand	6.99	4.54 ^A	3.37	3.6	10.1	0.0	23.7	4.3	1.05	–77	6.58
	20–30	Clayey Very Coarse Sand	5.91	3.99 ^A	1.78	6.9	0.0	0.0	6.9	0.0	0.55	–75	6.43
P7	0–5	Silty Sand	6.49	5.77	9.54	10.2	3.5	0.0	17.2	3.5	2.47	–222	6.67
	5–10	Clayey Sand	6.65	5.44 ^A	6.32	8.4	4.1	0.0	16.6	4.1	1.80	–198	6.81
	10–20	Clayey Medium–Coarse Sand	6.79	4.67 ^A	2.70	6.4	0.0	0.0	6.4	0.0	0.63	–102	6.92
	20–40	Clayey Medium Sand	5.55	4.86	1.32	8.4	0.0	0.0	8.4	0.0	0.24	–50	6.72
P8	40–65	Medium Sand (Clayey at base)	6.21	4.65	1.15	6.4	0.0	0.0	6.4	0.0	0.44	–56	6.74
	0–5	Silty Sand	6.21	5.42 ^A	9.68	17.8	0.0	0.0	17.8	0.0	2.27	–147	6.89

Profile	Depth (cm)	Soil texture	pH		SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC	Eh _(field)	pH _(field)
			pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(% CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)		
P9	5–10	Silty Sand	6.14	5.18	10.85	24.7	3.4	0.0	31.3	0.0	2.30	–115	6.52
	10–20	Silty Sand	6.94	4.51 ^A	7.44	8.8	0.0	0.0	8.8	0.0	1.45	–138	7.01
	20–40	Very Coarse Sand	6.27	3.81 ^A	3.08	0.0	0.0	0.5	–69.8	0.0	0.43	–93	6.57
	0–5	Silty Sand	6.31	4.71	12.63	17.7	0.0	0.0	17.7	0.0	1.42	–63	6.51
	5–10	Silty Sand	6.45	4.25 ^A	21.43	19.4	16.5	0.0	52.4	10.6	2.05	–255	6.59
	10–20	Granular Coarse Sand	5.54	3.39 ^A	5.38	3.4	5.5	0.0	14.5	0.0	0.68	–175	6.19
	20–40	Clayey Granular Coarse Sand	5.29	4.14	2.34	9.6	0.0	0.0	9.6	0.0	0.43	–167	6.07

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).

Table S2. Analytical data for acid sulfate soil assessment of Site 2

	Depth				SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
Profile	(cm)	Soil texture	pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(% CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field)	pH _(field)
P1	0–5	Mud	7.82	3.55 ^A	21.80	0.0	139.8	1.7	57.2	75.1	3.06	−74	6.59
	5–10	Muddy Sand	6.61	4.04 ^A	15.95	0.0	23.2	0.6	−33.5	18.4	2.68	−99	6.52
	10–20	Medium Sand	6.1	3.14 ^A	17.50	0.0	24.3	0.3	6.8	10.9	2.06	−300	6.22
	20–35	Medium Sand	5.03	2.52 ^A	21.33	4.4	54.5	0.0	113.1	7.3	1.44	−144	6.92
P2	0–5	Muddy Sand	6.58	4.28 ^A	5.80	5.6	0.0	0.0	5.6	0.0	No Sample	−161	6.93
	5–10	Muddy Sand	6.15	4.42 ^A	4.82	6.6	4.2	0.0	15.1	4.2	No Sample	−44	6.64
	10–15	Muddy Sand	5.94	5.3	2.31	5.1	0.0	0.0	5.1	0.0	No Sample	−73	6.53
P3	0–5	Mud	6.88	2.24 ^A	93.11	0.0	91.7	1.5	−11.1	78.2	2.14	−102	6.82
	5–10	Mud	7.2	4.50 ^A	56.14	0.0	78.5	1.0	23.8	70.4	1.67	−126	6.71
	10–20	Muddy Sand	6.94	4.71	35.70	0.0	34.7	0.6	−16.5	30.7	1.35	−123	6.64
	20–40	Medium Sand	6.95	4.50 ^A	28.31	0.0	24.1	0.5	−18.7	14.8	0.57	−112	6.67
	40–60	Medium Sand	6.6	3.64 ^A	63.63	0.0	50.5	0.9	−17.9	16.7	1.44	−132	6.51
	60–90	Clayey Medium Sand	6.33	2.35 ^A	80.94	5.4	151.1	0.0	307.1	15.8	1.35	−103	6.29
P4	0–5	Muddy Medium Sand	6.08	3.14	5.05	0.0	16.6	0.2	1.3	0.0	No Sample	−106	6.83
	5–10	Fine to Medium Sand	5.82	3.71 ^A	9.17	13.0	60.8	0.0	134.2	18.4	No Sample	−104	6.72
	10–20	Clayey Medium Sand	n/a	3.87	1.47	16.2	11.4	0.0	38.9	0.0	No Sample	−122	6.51
	20–25	Clayey Medium Sand	5.39	4.32 ^A	1.36	18.4	9.2	0.0	36.8	0.0	No Sample	−83	6.21
P5	0–5	Mud	7.89	2.23 ^A	33.97	0.0	404.0	2.4	491.8	268.8	1.83	−101	6.74
	5–10	Mud	7.86	3.47 ^A	267.16	0.0	140.0	2.3	−31.4	63.9	1.75	−109	6.76
	10–20	Mud	7.63	2.97 ^A		0.0	349.3	2.0	433.4	258.0	1.70	−100	6.79
	20–40	Mud	7.58	4.30 ^A	79.07	0.0	382.5	1.9	507.6	272.6	1.00	−115	6.56
	40–65	Mud	7.19	2.90 ^A	200.25	0.0	383.3	1.3	589.8	288.7	0.99	−109	6.49
	65–75	Very Coarse Sand	6.96	2.77 ^A	24.70	0.0	63.7	0.2	96.4	0.0	1.55	−65	6.65
P6	0–5	Muddy Sand	6.71	4.39 ^A	7.91	7.1	0.0	0.0	7.1	0.0	No Sample	−86	6.88
	5–10	Clayey Fine Sand	5.66	3.89 ^A	3.81	9.8	13.2	0.0	36.3	0.0	No Sample	−105	6.67
	10–20	Clayey Fine Sand	6.25	4.47 ^A	5.61	15.0	12.3	0.0	39.6	0.0	No Sample	−120	6.53
	20–40	Clayey Fine Sand	5.36	5.51	6.32	7.6	10.8	0.0	29.1	0.0	No Sample	−76	6.27
P7	0–5	Mud	6.64	2.60 ^A	138.49	0.0	365.2	1.5	528.6	321.2	1.745835	−66	6.51
	5–10	Mud	6.76	2.42 ^A	161.42	0.0	302.0	1.6	393.4	212.0	2.953335	−81	6.52
	10–20	Mud	6.81	2.61 ^A	93.11	0.0	93.7	0.7	99.2	80.4	0.907935	−82	6.49
	20–40	Medium–Coarse Sand	6.7	2.71 ^A	30.88	0.0	0.0	0.2	−22.5	0.0	0.162435	−69	6.5
	40–45	Medium–Coarse Sand	6.62	4.14 ^A	84.22	0.0	180.9	0.9	245.3	169.7	0.857535	−132	6.49
P8	0–5	Very Coarse Sand	6.62	3.74	2.75	0.0	0.0	0.1	−9.4	0.0	No Sample	−49	6.80

Profile	Depth (cm)	Soil texture	pH _(w)	pH _(inc)	SO ₄ ²⁻ (mmol kg ⁻¹)	TAA (mol H ⁺ Mg ⁻¹)	S _{CR} (mmol kg ⁻¹)	ANC (% CaCO ₃)	Net acidity (mol H ⁺ Mg ⁻¹)	AVS (mmol kg ⁻¹)	TOC (%)	Eh _(field)	pH _(field)
	5–10	Very Coarse Sand	6.6	3.86	9.12	0.0	74.5	0.2	117.2	35.5	No Sample	–86	6.85
	10–20	Very Coarse Sand	6.39	3.20 ^A	11.32	0.0	96.1	0.2	167.6	73.9	No Sample	–76	6.50
	20–40	Very Coarse Silty Sand	6.83	5.67 ^A	8.66	0.0	127.2	0.7	166.1	0.0	No Sample	–41	6.49
P9	0–5	Coarse Sand	6.34	3.93 ^A	1.68	0.0	0.0	0.1	–10.4	0.0	No Sample	84	6.67
	5–10	Coarse Sand	6.66	3.70 ^A	1.75	0.0	0.0	0.1	–11.2	0.0	No Sample	93	6.40
	10–20	Coarse Sand	7.02	3.26 ^A	1.84	0.0	0.0	0.1	–18.4	0.0	No Sample	52	6.81
	20–25	Coarse Sand	6.64	3.35 ^A	2.03	0.0	0.0	0.1	–6.5	0.0	No Sample	96	7.06
P10	0–5	Mud	7.57	4.39 ^A	127.26	0.0	257.2	2.6	162.3	236.6	No Sample	117	7.15
	5–10	Mud	7.73	3.54 ^A	n/a	0.0	148.4	2.0	34.7	99.0	No Sample	117	7.20
	10–20	Mud	7.4	4.04 ^A	82.81	0.0	90.4	2.0	–84.8	43.7	No Sample	118	6.92
	20–40	Muddy Sand	7.1	2.69 ^A	132.88	0.0	257.1	1.0	377.5	100.2	No Sample	141	6.76
P11	0–5	Mud	6.73	2.84 ^A	198.85	2.5	68.9	0.0	140.0	68.9	No Sample	–132	6.73
	5–10	Mud	6.56	3.83 ^A	143.64	3.7	128.3	0.0	259.8	121.8	No Sample	–164	6.58
	10–20	Mud	6.62	4.53 ^A	115.10	0.0	219.0	1.5	241.9	195.1	No Sample	–161	6.67
	20–40	Sandy Mud	6.21	3.01 ^A	84.68	2.4	153.5	0.0	308.7	145.3	No Sample	–230	6.51
P12	0–5	Mud	6.55	3.38 ^A	29.29	0.0	30.7	0.5	–4.3	30.7	1.13	–168	6.62
	5–10	Sandy Mud	6.49	3.48 ^A	30.04	0.0	105.7	0.3	165.1	73.7	0.85	–154	6.56
	10–20	Sandy Mud	6.18	3.06 ^A	39.58	0.0	72.7	0.3	100.3	25.2	1.09	–121	6.44
	20–40	Sandy Mud	5.8	2.75 ^A	26.11	4.9	169.0	0.0	342.2	36.7	No Sample	–169	6.42
P13	0–5	Mud	6.93	3.82 ^A	n/a	n/a	4.2	n/a	n/a	4.2	No Sample	–134	7.11
	5–10	Medium Sand Mud	7.09	3.69 ^A	n/a	n/a	9.2	n/a	n/a	9.2	No Sample	–196	7.14
	10–20	Medium Sand	7.19	3.53 ^A	n/a	n/a	43.2	n/a	n/a	10.9	No Sample	–140	6.93
	20–40	Medium Sand	7.05	2.22	n/a	n/a	29.5	n/a	n/a	7.5	No Sample	–113	6.88

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).

Table S3. Analytical data for acid sulfate soil assessment of Site 3

Profile	Depth		SO ₄ ²⁻		TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
	(cm)	Soil texture	pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(% CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field) pH _(field)
P1	0–5	Mud	7.32	3.45	58.02	14.6	83.5	0.0	181.2	74.9	2.45	–70 7.15
	5–10	Mud	7.58	3.96 ^A	65.50	13.9	245.0	0.0	502.9	223.7	6.48	–123 7.25
	10–20	Mud	6.79	4.52	15.49	6.3	81.6	0.0	169.2	70.4	5.09	–145 7.33
	20–35	Granular Very Coarse Sand	7.35	2.71	10.29	2.6	11.8	0.0	26.1	7.4	No Sample	–83 7.32
P2	0–5	Mud	6.99	3.59	40.66	22.7	142.3	0.0	306.7	119.0	No Sample	–157 7.41
	5–10	Mud	7.08	3.71 ^A	49.13	11.3	114.1	0.0	239.1	105.1	No Sample	–168 6.80
	10–15	Mud	6.97	3.97	24.05	9.0	83.7	0.0	176.2	63.6	2.32	–139 6.81
	15–40	Mud	6.67	5.98 ^A	5.15	3.2	49.5	0.0	102.1	40.9	1.76	–126 6.91
	40–60	Fine Sandy Silt	7.33	2.68 ^A	19.56	0.0	99.3	1.4	17.4	23.2	1.22	–139 7.03
	60–65	Very Coarse Sand	6.97	3.09 ^A	12.35	0.0	95.1	0.4	141.2	3.9	0.48	
P3	0–5	Mud	7.02	3.74 ^A	19.18	11.8	19.1	0.0	38.1	12.7	2.53	–139 7.19
	5–10	Very Coarse Sand	7.16	4.32	3.53	2.4	0.0	0.0	2.4	0.0	0.45	–135 6.91
	10–20	Very Coarse Sand	7.67	4.12 ^A	1.66	0.0	0.0	0.1	–13.3	0.0	0.01	–60 6.91
	20–40	Very Coarse Sand	7.34	3.80 ^A	1.25	0.0	0.0	0.0	–1.3	0.0	0.01	–46 6.82
	40–70	Coarse–Very Coarse Sand	7.48	2.78	4.77	0.0	45.6	0.3	46.9	0.0	0.23	–84 7.53
P4	0–5	Very Coarse Sand	7.53	2.83	3.19	2.5	4.4	0.0	11.3	4.4	0.13	–155 7.66
	5–10	Coarse Sand	6.97	3.39 ^A	1.92	0.0	0.0	0.1	–11.8	0.0	0.02	–86 7.22
	10–20	Coarse Sand	6.84	4.22	2.14	2.9	0.0	0.0	2.9	0.0	0.06	–167 7.47
	20–40	Very Coarse Sand	6.93	4.03	2.01	2.7	0.0	0.0	2.7	0.0	0.06	
P5	0–5	Very Coarse Sand	6	4.00 ^A	2.33	3.1	0.0	0.0	3.1	0.0	0.37	4 6.55
	5–10	Coarse Sand	6.99	4.23 ^A	3.08	2.3	0.0	0.0	2.3	0.0	0.11	–128 7.13
	10–20	Granular Very Coarse Sand	6.99	4.06	3.47	3.1	0.0	0.0	3.1	0.0	0.39	–34 7.15
	20–35	Granular Very Coarse Sand	6.98	3.69	2.23	2.1	0.0	0.0	2.1	0.0	0.12	–14 7.26
P6	0–5	Coarse Sand	6.51	4.03 ^A	2.99	1.9	0.0	0.0	1.9	0.0	0.19	62 6.53
	5–10	Coarse Sand	6.68	3.04	3.67	4.3	0.0	0.0	4.3	0.0	0.60	50 6.61
	10–20	Coarse Sand	6.46	3.54 ^A	2.40	2.6	0.0	0.0	2.6	0.0	0.14	–55 6.59
	20–40	Coarse Sand	6.45	3.08 ^A	2.16	0.0	0.0	0.1	–17.4	0.0	0.05	
P7	0–5	Coarse Sand	6.31	3.92 ^A	2.02	2.6	0.0	0.0	2.6	0.0	0.11	166 6.52
	5–10	Coarse Sand	6.84	2.53	2.96	2.2	11.8	0.0	25.7	0.0	0.27	130 6.83
	10–20	Coarse Sand	7.9	2.3	3.07	1.9	16.1	0.0	34.0	0.0	0.11	83 7.07
	20–30	Coarse Sand	8.08	2.36	3.22	3.6	9.7	0.0	23.0	0.0	0.10	97 7.03
P8	0–5	Muddy Sand	6.89	4.01	3.69	2.9	0.0	0.0	2.9	0.0	0.19	–54 6.57

	Depth				SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
Profile	(cm)	Soil texture	pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(% CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field)	pH _(field)
P9	5–10	Very Coarse Sand	6.92	3.21	2.51	1.9	0.0	0.0	1.9	0.0	0.10	−33	6.38
	10–20	Coarse Sand	7.55	3.69	2.03	0.0	0.0	0.2	−21.8	0.0	0.02	−30	6.77
	20–40	Coarse Sand	7.5	1.94	5.19	1.6	0.0	0.0	1.6	0.0	0.17		
	0–5	Coarse Sand	6.87	4.63 ^A	1.78	0.0	0.0	0.2	−28.8	0.0	0.06	81	6.38
	5–10	Very Coarse Sand	7.11	3.17 ^A	2.83	0.0	0.0	0.2	−32.2	0.0	0.09	31	6.56
P10	10–20	Very Coarse Sand	6.64	2.69	4.17	3.9	0.0	0.0	3.9	0.0	0.62	63	6.69
	0–5	Muddy Fine to Medium Sand	6.62	4.00 ^A	9.54	9.8	14.3	0.0	38.5	6.3	2.25	−13	6.21
	5–10	Medium Sand	6.63	4.5	5.75	9.0	7.4	0.0	23.8	0.0	1.42	−41	6.31
	10–20	Medium Sand	6.35	3.25 ^A	5.19	6.4	9.0	0.0	24.3	0.0	0.87	−44	6.19
	20–40	Medium Sand	7.03	3.68 ^A	6.88	1.9	121.6	0.0	244.5	4.8	0.96	−10	6.11
P11	40–50	Clayey Sand	n/a	3.17 ^A	8.47	0.0	90.8	0.4	129.6	4.9	1.39	−48	6.16
	0–5	Coarse Sand	6.9	4.18 ^A	1.65	2.1	0.0	0.0	2.1	0.0	0.08	35	6.54
	5–10	Very Coarse Sand	6.9	4.12 ^A	2.41	3.4	0.0	0.0	3.4	0.0	0.13	25	6.44
P12	10–20	Very Coarse Sand	7.1	3.98	1.40	2.4	0.0	0.0	2.4	0.0	0.05	55	6.57
	0–5	Coarse Sand	6.56	3.61	4.87	14.8	14.1	0.0	42.9	0.0	0.67	−53	6.35
	5–10	Very Coarse Sand	6.85	3.16	1.52	2.7	0.0	0.0	2.7	0.0	0.06	−54	6.46
	10–20	Very Coarse Sand	6.97	3.81	1.64	0.0	0.0	0.0	−2.9	0.0	0.09	−29	6.36
	20–40	Mud	7.1	3.52 ^A	4.25	3.2	0.0	0.0	3.2	0.0	0.22	4	6.47

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).

Table S4. Analytical data for acid sulfate soil assessment of Site 4

Profile	Depth (cm)		Soil texture	pH _(w) pH _(inc)		SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC	Eh _(field)	pH _(field)
						(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)		
P1	0–5	Granular	Very Coarse Sand	6.58	4.94	1.35	2.9	0.0	0.0	2.9	0.0	0.77	152	6.71
	5–10	Granular	Very Coarse Sand	5.95	3.5	1.55	5.2	0.0	0.0	5.2	0.0	0.87	53	6.51
	10–20	Granular	Very Coarse Sand	5.63	3.91	1.32	3.5	0.0	0.0	3.5	0.0	0.24	127	6.38
	20–40	Granular	Very Coarse Sand	5.79	3.87	1.16	3.0	0.0	0.0	3.0	0.0	0.21	42	6.52
P2	0–5	Medium	Sand	6.53	4.79	3.24	21.0	3.2	0.0	27.4	0.0	2.65	–79	6.84
	5–10	Medium	Sand	6.32	4.8	3.55	21.0	0.0	0.0	21.0	0.0	2.60	–95	6.86
	10–15	Medium	Sand	6.67	5.05 ^A	3.32	18.1	0.0	0.0	18.1	0.0	2.40	–121	6.67
	15–40	Medium	Sand	6.63	5.23	1.69	9.6	0.0	0.0	9.6	0.0	0.24	–60	6.91
P3	0–5	Coarse to Very Coarse	Sand	6.34	5.33 ^A	0.87	0.0	0.0	0.1	–18.4	0.0	0.08	186	6.74
	5–10	Coarse to Very Coarse	Sand	5.96	4.52	1.92	3.2	0.0	0.0	3.2	0.0	0.53	114	6.64
	10–20	Coarse to Very Coarse	Sand	5.99	4.53	0.91	3.0	0.0	0.0	3.0	0.0	0.10	109	6.6
	20–40	Coarse to Very Coarse	Sand	5.9	4.36	1.13	3.2	0.0	0.0	3.2	0.0	0.16	154	6.46
P4	0–5	Coarse to Very Coarse	Sand	5.84	4.54 ^A	1.16	2.6	0.0	0.0	2.6	0.0	0.09	71	6.59
	5–10	Coarse to Very Coarse	Sand	5.75	4.3	1.35	2.7	0.0	0.0	2.7	0.0	0.07	121	6.35
	10–20	Coarse to Very Coarse	Sand	6.08	3.99	1.33	1.0	0.0	0.0	1.0	0.0	0.06	25	6.45
	20–40	Coarse to Very Coarse	Sand	5.92	4.47	1.24	2.9	0.0	0.0	2.9	0.0	0.09	3	6.63
P5	0–5	Coarse	Sand	6.05	4.58 ^A	1.26	3.2	0.0	0.0	3.2	0.0	0.54	–66	6.84
	5–10	Coarse	Sand	5.89	4.15 ^A	1.16	3.2	0.0	0.0	3.2	0.0	0.21	–35	6.43
	10–20	Coarse to Very Coarse	Sand	5.55	4.23	1.47	3.2	0.0	0.0	3.2	0.0	0.18	26	6.44
	20–30	Silty	Coarse Sand	6.23	4.49	1.97	6.0	0.0	0.0	6.0	0.0	No Sample	–36	6.62
	30–40	Coarse to Very Coarse	Sand	5.9	4.33	2.19	9.9	0.0	0.0	9.9	0.0	1.91	99	6.53
P6	0–5	Coarse to Very Coarse	Sand	6.21	3.75	0.95	0.0	0.0	0.1	–17.2	0.0	0.08	139	6.68
	5–10	Very Coarse	Sand	5.9	4.65	1.23	0.0	0.0	0.1	–6.3	0.0	0.04	91	6.95
	10–20	Very Coarse	Sand	5.82	4.51	1.12	2.6	0.0	0.0	2.6	0.0	0.05	96	6.21
	20–40	Very Coarse	Sand	6.02	4.35	1.02	2.5	0.0	0.0	2.5	0.0	0.05	186	6.48
P7	0–5	Very Coarse	Sand	6.23	6.23	0.80	2.5	0.0	0.0	2.5	0.0	0.15	187	6.18
	5–10	Very Coarse	Sand	5.91	4.79	0.98	2.6	0.0	0.0	2.6	0.0	0.14	119	6.22
	10–20	Very Coarse	Sand	4.61	3.35	1.12	2.7	5.5	0.0	13.6	5.5	0.11	182	6.62
	20–25	Very Coarse	Sand	5.35	3.25	0.93	3.1	0.0	0.0	3.1	0.0	0.02	171	6.41
P8	0–5	Granular	Very Coarse Sand	5.77	4.85 ^A	0.63	2.6	0.0	0.0	2.6	0.0	0.07	255	6.51
	5–10	Granular	Very Coarse Sand	6.06	4.71	0.93	2.9	0.0	0.0	2.9	0.0	0.10	217	6.4
	10–20	Coarse	Sand	5.93	4.25	1.13	3.0	0.0	0.0	3.0	0.0	0.63	159	6.79
	20–40	Coarse	Sand	6.1	4.1	1.67	3.6	3.7	0.0	11.0	3.7	0.62	104	6.76

	Depth			SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
Profile	(cm)	Soil texture	pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field) pH _(field)
P9	0–5	Mud	6.61	4.24 ^A	4.96	60.2	0.0	0.0	60.2	0.0	2.70	–77 6.56
	5–10	Mud	6.59	4.36 ^A	4.68	62.1	0.0	0.0	62.1	0.0	No Sample	–99 6.56
	10–20	Mud	5.87	4.46 ^A	4.44	48.7	0.0	0.0	48.7	0.0	1.97	–119 6.61
	20–40	Mud	6.67	4.44 ^A	4.05	34.0	0.0	0.0	34.0	0.0	1.78	–105 6.6
	40–90	Mud	6.84	5.45 ^A	6.60	45.9	3.1	0.0	52.2	0.0	1.53	–88 6.51
P10	0–5	Coarse Sand	6	4.52 ^A	1.00	2.9	0.0	0.0	2.9	0.0	0.14	7 6.54
	5–10	Coarse Sand	6.09	4.31	0.90	2.6	0.0	0.0	2.6	0.0	0.04	–39 6.89
	10–20	Very Coarse Sand	5.61	4.25	0.90	3.6	0.0	0.0	3.6	0.0	0.03	–52 6.68
	20–25	Very Coarse Sand	6.08	4.2	1.25	6.1	0.0	0.0	6.1	0.0	0.35	–46 6.77
P11	0–5	Very Coarse Sand	5.87	4.43 ^A	0.95	2.7	0.0	0.0	2.7	0.0	0.10	34 6.7
	5–10	Very Coarse Sand	5.78	4.14 ^A	1.13	2.9	0.0	0.0	2.9	0.0	0.21	–18 6.76
	10–20	Very Coarse Sand	5.91	3.67 ^A	2.96	2.9	0.0	0.0	2.9	0.0	0.19	–38 6.6
P12	0–5	Coarse Sand	6.1	4.44 ^A	0.77	2.5	0.0	0.0	2.5	0.0	0.08	7 6.43
	5–10	Very Coarse Sand	5.85	4.50 ^A	1.16	2.7	0.0	0.0	2.7	0.0	0.13	–24 7.15
	10–20	Very Coarse Sand	6	4.28 ^A	1.05	2.6	0.0	0.0	2.6	0.0	0.08	–9 6.81
	20–40	Very Coarse Sand	5.67	4.03 ^A	1.16	3.2	0.0	0.0	3.2	0.0	0.11	0 6.79
P13	0–5	Very Coarse Sand	6.11	4.57 ^A	0.83	2.4	0.0	0.0	2.4	0.0	0.05	56 6.93
	5–10	Very Coarse Sand	6.54	4.36 ^A	0.94	2.0	0.0	0.0	2.0	0.0	0.04	129 6.67
	10–20	Coarse Sand	5.56	4.19	1.29	12.1	0.0	0.0	12.1	0.0	0.09	10 6.42

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).

Table S5. Analytical data for acid sulfate soil assessment of Site 5

Profile	Depth (cm)	Soil texture	pH _(w)	pH _(inc)	SO ₄ ²⁻ (mmol kg ⁻¹)	TAA (mol H ⁺ Mg ⁻¹)	SCR (mmol kg ⁻¹)	ANC (%CaCO ₃)	Net acidity (mol H ⁺ Mg ⁻¹)	AVS (mmol kg ⁻¹)	TOC (%)	Eh _(field)	pH _(field)
P1	0–5	Medium Sand	5.91	4.18 ^A	2.41	35.5	0.0	0.0	36.5	0.0	1.78	67	5.77
	5–10	Medium Sandy Clay	5.97	4.10 ^A	3.00	53.3	0.0	0.0	55.3	0.0	2.52	52	6.07
	10–20	Medium Sandy Clay	5.29	4.09	2.77	39.9	0.0	0.0	40.9	0.0	1.96	15	6.04
	20–40	Medium to Coarse Sandy Clay	5.44	4.47	2.26	20.4	0.0	0.0	23.4	0.0	2.85	65	5.72
	40–60	Medium to Coarse Sandy Clay	5.13	4.41	1.97	24.0	0.0	0.0	24.0	0.0	2.53	44	5.99
P2	0–5	Silty Clay	5.93	4.03 ^A	3.63	52.2	0.0	0.0	53.2	0.0	2.12	15	6.03
	5–10	Silty Clay	5.91	4.04	3.13	52.7	3.4	0.0	62.5	0.0	2.12	88	5.98
	10–15	Silty Clay	6.13	4.12	3.39	53.3	3.8	0.0	64.0	0.0	1.78	83	5.99
	15–40	Silty Clay	6.27	4.4	2.74	40.7	0.0	0.0	43.7	0.0	1.78	102	6.1
	40–47	Silty Clay	5.91	4.17	3.05	29.5	0.0	0.0	29.5	0.0	1.96	110	5.95
P3	0–5	Fine Sandy Clay	6.05	4.38 ^A	4.26	54.5	5.4	0.0	67.3	0.0	2.13	242	6.04
	5–10	Fine Sandy Clay	5.85	4.29 ^A	3.42	61.9	4.3	0.0	72.4	0.0	2.07	263	6.02
	10–20	Fine Sandy Clay	5.74	4.13	3.76	58.0	5.7	0.0	71.4	0.0	2.18	83	5.89
	20–40	Fine Sandy Clay	6.24	4.32	3.85	48.9	4.0	0.0	58.9	0.0	1.83	62	5.94
	40–45	Fine Sandy Clay	6.46	4.31	3.64	38.0	3.7	0.0	48.4	0.0	1.79	52	5.95
P4	0–5	Silty Clay	5.75	4.16 ^A	3.77	55.4	0.0	0.0	57.4	0.0	2.05	217	6.05
	5–10	Silty Clay	5.82	4.19 ^A	3.58	55.7	3.2	0.0	64.1	0.0	No Sample	114	5.77
	10–20	Fine Sandy Clay	5.92	4.16	3.25	44.9	3.2	0.0	52.4	0.0	2.38	88	5.95
	20–40	Fine Sandy Clay	5.98	4.33	4.05	49.6	0.0	0.0	52.6	0.0	1.82	56	6.16
	40–45	Fine Sandy Clay	6.22	4.24 ^A	3.72	34.2	0.0	0.0	34.2	0.0	1.9	100	6
P5	0–5	Fine Sandy Clay	5.83	3.96 ^A	1.56	61.0	4.4	0.0	70.8	0.0	2.13	58	5.95
	5–10	Fine Sandy Clay	5.77	4.02 ^A	3.32	61.6	3.9	0.0	71.3	0.0	2.14	86	5.88
	10–20	Fine Sandy Clay	5.78	4.23	3.52	57.0	4.1	0.0	68.1	0.0	2.17	113	5.92
	20–40	Medium Sandy Clay	5.54	4.2	3.72	50.9	0.0	0.0	51.9	0.0	1.83	87	5.83
	40–50	Medium Sandy Clay	5.62	4.29 ^A	3.42	41.1	0.0	0.0	41.1	0.0	1.87	18	5.65
P6	0–5	Silty Clay	5.98	4.07 ^A	1.63	52.3	4.1	0.0	63.6	4.1	2.22	15	5.82
	5–10	Silty Clay	5.98	4.14 ^A	3.24	59.0	3.4	0.0	67.8	0.0	2.3	68	5.82
	10–20	Silty Clay	5.4	4.18	3.31	51.1	3.5	0.0	59.2	0.0	2.24	112	5.8
	20–40	Silty Clay	6.22	4.34	3.25	51.6	0.0	0.0	53.6	0.0	1.85	76	6.02
	40–50	Silty Clay	6.27	4.34 ^A	4.82	35.6	0.0	0.0	39.1	0.0	1.9	93	5.81
P7	0–5	Silty Clay	6.09	3.96 ^A	3.40	54.5	0.0	0.0	57.5	0.0	2.31	66	6
	5–10	Silty Clay	5.91	4.11 ^A	3.87	56.3	0.0	0.0	57.3	0.0	2.37	113	5.89
	10–20	Silty Clay	6.14	4.09 ^A	3.90	53.8	0.0	0.0	58.8	0.0	2.12	74	5.99

Depth			SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
Profile	(cm)	Soil texture	pH _(w) pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field) pH _(field)
	20–40	Silty Clay	6.32 4.07 ^A	3.27	47.0	0.0	0.0	50.0	0.0	1.86	120 5.85
	40–47	Silty Clay	6.42 4.15 ^A	2.94	39.9	0.0	0.0	41.9	0.0	1.82	120 5.92
P8	0–5	Silty Clay	5.75 4.33 ^A	2.51	37.1	0.0	0.0	39.1	0.0	2.93	91 5.91
	5–10	Silty Clay	5.31 4.11 ^A	2.66	55.4	0.0	0.0	57.4	0.0	2.28	84 5.35
	10–20	Silty Medium Sand	5.13 4.28 ^A	3.04	47.4	0.0	0.0	50.4	0.0	2.97	95 5.83
	20–40	Silty Medium Sand	5.21 4.74 ^A	3.03	31.3	0.0	0.0	33.3	0.0	5.55	81 5.95
	40–50	Silty Medium Sand	5.52 4.85	2.13	19.5	0.0	0.0	19.5	0.0	3.34	110 5.89
P9	0–5	Silty Medium Sand	6.1 3.90 ^A	1.53	55.1	0.0	0.0	57.1	0.0	2.18	28 5.86
	5–10	Medium Sandy Clay	5.86 3.97 ^A	3.21	61.1	0.0	0.0	63.1	0.0	2.19	81 5.71
	10–20	Medium Sandy Clay	5.84 4.27 ^A	3.43	55.2	0.0	0.0	59.2	0.0	2.28	101 5.85
	20–40	Medium Sandy Clay	5.77 4.45 ^A	3.34	40.0	0.0	0.0	42.0	0.0	1.72	61 5.97
	40–50	Medium Sandy Clay	6.57 4.27 ^A	3.10	34.5	0.0	0.0	34.5	0.0	1.81	80 5.59
P10	0–5	Silty Medium Sand	6.1 4.1	3.04	34.6	0.0	0.0	38.6	0.0	2.35	158 5.89
	5–10	Medium Sandy Clay	5.76 4.21 ^A	3.23	50.5	0.0	0.0	53.5	0.0	2.25	83 5.89
	10–20	Medium Sandy Clay	5.54 4.12	2.90	48.6	4.5	0.0	60.7	0.0	2.22	107 5.75
	20–40	Medium Sandy Clay	5.8 4.44 ^A	2.26	35.7	0.0	0.0	36.7	0.0	2.02	37 5.95
	40–45	Medium Sandy Clay	5.91 4.77	2.18	18.8	0.0	0.0	18.8	0.0	2.59	–8 6.06
P11	0–5	Silty Medium Sand	6.02 4.07 ^A	3.00	55.5	3.3	0.0	67.1	0.0	2.35	5 5.84
	5–10	Medium Sandy Clay	5.8 4.03 ^A	3.37	61.5	3.2	0.0	68.9	0.0	2.45	89 5.5
	10–20	Medium Sandy Clay	5.39 4.07	3.31	49.5	4.8	0.0	63.0	0.0	2.35	103 5.81
	20–40	Medium Sandy Clay	5.93 4.29	2.81	40.0	0.0	0.0	42.0	0.0	1.71	92 5.87
	40–53	Medium Sandy Clay	4.97 4.43 ^A	2.47	27.2	3.1	0.0	33.4	0.0	1.66	120 5.94
P12	0–5	Medium Sandy Clay	5.84 4.17 ^A	2.99	56.9	3.3	0.0	67.5	0.0	No Sample	38 5.86
	5–10	Medium Sandy Clay	5.65 4.08 ^A	3.22	49.8	0.0	0.0	50.8	0.0	2.26	113 5.81
	10–20	Medium Sandy Clay	5.6 4.19 ^A	3.52	56.5	3.4	0.0	65.3	0.0	1.8	125 5.75
	20–40	Medium Sandy Clay	5.62 4.26 ^A	3.28	40.7	0.0	0.0	44.2	0.0	1.84	200 5.88
	40–45	Medium Sandy Clay	6.12 4.45	1.97	15.0	0.0	0.0	15.0	0.0	1.27	

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).

Table S6. Analytical data for acid sulfate soil assessment of Site 6

Profile	Depth (cm)	Soil texture	pH _(w)	pH _(inc)	SO ₄ ²⁻ (mmol kg ⁻¹)	TAA (mol H ⁺ Mg ⁻¹)	S _{CR} (mmol kg ⁻¹)	ANC (% CaCO ₃)	Net acidity (mol H ⁺ Mg ⁻¹)	AVS (mmol kg ⁻¹)	TOC (%)	Eh _(field)	pH _(field)
P1	0–5	Sandy Silt	5.86	4.23 ^A	3.20	74.9	0.0	0.0	78.9	0.0	2.27	20	6.09
	5–10	Sandy Silt	5.72	4.29 ^A	3.71	62.2	0.0	0.0	65.2	0.0	1.9	–34	6.19
	10–20	Sandy Silt	5.93	4.29 ^A	2.94	47.0	0.0	0.0	50.0	0.0	2.27	40	6.22
	20–40	Sandy Silt	5.79	4.71 ^A	3.49	26.7	0.0	0.0	26.7	0.0	2.52	–25	5.98
P2	0–5	Sandy Silt	6.09	4.02 ^A	2.57	56.0	0.0	0.0	57.0	0.0	2.32	29	6.06
	5–10	Sandy Silt	5.76	4.32 ^A	2.76	53.3	0.0	0.0	54.3	0.0	2.06	–31	6.28
	10–20	Sandy Silt	6.34	4.25 ^A	3.04	42.9	0.0	0.0	45.9	0.0	1.78	–9	6.28
	20–22	Sandy Silt	5.66	n/a	1.53	13.5	0.0	0.0	15.5	0.0	0.526		
P3	0–5	Sandy Silt	6.2	4.13 ^A	3.48	36.9	4.5	0.0	38.9	4.5	2.34	–50	6.47
	5–10	Sandy Silt	6.13	4.32 ^A	n/a	47.9	8.9	0.0	59.9	5.5	no sample	–69	6.33
	10–20	Sandy Silt	6.27	4.39 ^A	7.77	42.0	3.5	0.0	63.7	0.0	1.96	–5	6.1
	20–40	Sandy Silt	6.28	4.84 ^A	2.97	24.0	0.0	0.0	30.9	0.0	2.11	–47	6.28
P4	40–80	Sandy Silt	6.28	4.84 ^A	2.99	14.8	3.4	0.0	14.8	0.0	1.86	50	6.14
	0–5	Sandy Silt	5.9	4.38 ^A	1.55	61.9	4.1	0.0	71.7	0.0	2.37	159	6.21
	5–10	Sandy Silt	5.89	4.44 ^A	1.61	65.4	3.5	0.0	73.6	0.0	2.02	43	6.33
	10–20	Sandy Silt	5.98	4.19	3.49	66.0	0.0	0.0	73.1	0.0	2.14	–2	6.1
P5	20–40	Sandy Silt	6.44	4.00 ^A	4.50	34.1	0.0	0.0	34.1	0.0	1.96	–8	6.28
	40–80	Sandy Silt	6.52	4.10 ^A	3.52	13.4	0.0	0.0	13.4	0.0	1.75	–12	6.14
	80–95	Sandy Silt	6.36	4.44 ^A	3.56	12.4	6.0	0.0	12.4	0.0	1.66		
	0–5	Sandy Silt	6.76	7.14	3.77	0.0	0.0	2.2	–275.8	0.0	2.54	8	6.41
P6	5–10	Sandy Silt	6.67	7.16	4.06	0.0	0.0	4.0	–531.0	0.0	2.68	30	6.34
	10–20	Sandy Silt	6.5	4.60 ^A	3.01	9.8	0.0	0.0	9.8	0.0	2.26	–46	6.36
	20–40	Sandy Silt	6.28	4.14 ^A	3.28	30.5	3.5	0.0	30.5	0.0	2.1	24	6.25
	40–60	Sandy Silt	6.65	4.36 ^A	3.37	3.4	0.0	0.0	10.5	0.0	1.7	4	6.45
P7	60–90	Sandy Silt	6.89	5.78 ^A	4.47	0.0	0.0	5.2	–689.7	0.0	1.52	6	6.5
	0–5	Sandy Silt	5.95	4.23 ^A	3.32	25.4	3.4	0.0	25.4	0.0	2.79	25	6.24
	5–10	Sandy Silt	5.84	4.30 ^A	2.94	24.6	0.0	0.0	31.5	0.0	2.33	33	6.34
	10–20	Sandy Silt	6.17	4.28 ^A	2.83	48.1	0.0	0.0	≥ 55.6	0.0	2.24	18	6.24
P7	20–40	Sandy Silt	6.59	6.98	3.28	0.0	0.0	0.8	–103.9	0.0	1.41	–6	6.52
	0–5	Sandy Silt	6.19	4.26	n/a	53.4	0.0	0.0	≥ 70.5	0.0	no sample	43	6.33
	5–10	Sandy Silt	6.21	4.15	n/a	53.8	0.0	0.0	53.8	0.0	no sample	33	6.3
	10–20	Sandy Silt	6.05	4.60 ^A	3.18	39.7	0.0	0.0	39.7	0.0	2.08	18	6.28
	20–40	Sandy Silt	6.26	4.10 ^A	3.57	24.3	0.0	0.0	24.3	0.0	2.02	16	6.21

	Depth			SO ₄ ²⁻	TAA	S _{CR}	ANC	Net acidity	AVS	TOC		
Profile	(cm)	Soil texture	pH _(w)	pH _(inc)	(mmol kg ⁻¹)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(% CaCO ₃)	(mol H ⁺ Mg ⁻¹)	(mmol kg ⁻¹)	(%)	Eh _(field) pH _(field)
P8	40–85	Sandy Silt	6.34	4.22 ^A	3.35	14.6	0.0	0.0	14.6	0.0	1.86	17 6.15
	0–5	Sandy Silt	5.67	4.51 ^A	1.24	56.5	0.0	0.0	56.5	0.0	2.52	64 6.29
	5–10	Sandy Silt	5.58	4.18	3.02	53.2	0.0	0.0	53.2	0.0	1.83	32 6.08
	10–20	Sandy Silt	5.87	4.39	2.64	35.5	0.0	0.0	35.5	0.0	no sample	55 5.97
	20–40	Sandy Silt	6.04	4.36 ^A	2.56	16.4	0.0	0.0	16.4	0.0	1.56	14 6.32
P9	40–42	Sandy Silt	5.44	4.28 ^A	1.18	2.9	0.0	0.0	2.9	0.0	0.3	24 6.12
	0–5	Sandy Silt	5.97	4.28 ^A	4.00	11.6	3.4	0.0	18.7	3.4	2.72	17 6.39
	5–10	Sandy Silt	6.13	4.49 ^A	3.01	9.4	0.0	0.0	9.4	0.0	3.65	18 6.23
	10–20	Sandy Silt	6.29	4.94 ^A	4.37	10.8	0.0	0.0	17.6	0.0	3.14	–6 6.4
	20–40	Sandy Silt	6.13	5.32	2.43	11.1	0.0	0.0	11.1	0.0	0.92	–22 6.39
P10	40–90	Sandy Silt	6.3	4.84 ^A	2.40	15.7	0.0	0.0	15.7	0.0	1.42	123 6.27
	0–5	Sandy Silt	5.72	4.58	3.69	13.6	0.0	0.0	13.6	0.0		–51 6.84
	5–10	Sandy Silt	5.93	4.37 ^A	3.13	17.4	0.0	0.0	17.4	0.0	3.98	–56 6.4
	10–20	Sandy Silt	6.04	4.41	2.76	19.2	0.0	0.0	19.2	0.0	2.56	–44 6.48
	20–40	Sandy Silt	6.54	7.03 ^A	2.37	0.0	3.9	1.0	–127.0	0.0	2.23	–48 6.4
P11	40–45	Sandy Silt	6.28	5.07 ^A	2.54	10.3	4.9	0.0	10.3	0.0	1.79	0 6.28
	0–5	Sandy Silt	5.87	4.24 ^A	1.42	40.2	3.5	0.0	48.1	0.0	1.46	108 6.19
	5–10	Sandy Silt	5.97	4.31	1.02	44.9	5.1	0.0	54.6	0.0	no sample	92 6.16
	10–20	Sandy Silt	6.1	4.46 ^A	4.12	25.9	3.6	0.0	36.9	0.0	2.3	–28 6.06
	20–40	Sandy Silt	6.59	5.33 ^A	5.33	13.7	3.9	0.0	23.9	0.0	2.58	–43 6.41
P12	40–45	Sandy Silt	6.61	5.13 ^A	2.92	5.6	0.0	0.0	12.8	0.0	0.63	74 6.46
	0–5	Sandy Silt	6.41	4.35 ^A	3.68	27.0	8.8	0.0	34.7	0.0	3.47	93 6.42
	5–10	Sandy Silt	6.42	4.47 ^A	2.96	22.4	53.4	0.0	22.4	3.3	2.17	174 6.29
	10–20	Sandy Silt	6.65	4.43	7.72	9.6	34.2	0.0	27.1	13.6	1.74	69 6.54
	20–40	Sandy Silt	6.72	4.88 ^A	6.88	5.9	28.6	0.0	112.5	11.3	1.73	28 6.62
	40–80	Sandy Silt	7.25	7.12	9.12	0.0	34	1.0	–67.3	13.0	1.65	5 6.99
	80–90	Sandy Silt	7.37	6.95	8.56	0.0	28	3.2	–369.3	16.0	0.59	–87 7.2

^AIndicates that a stable pH has not yet been reached for this sample (after 12 weeks).