

Attachment C

Acid base accounting of acid sulphate soil laboratory results

*Using Fineness Figure of 1.5

**NALR = no additional lime required

Key ASS analysis				Lithology		pH _{ACL}	Sulfidic Titratable Actual Acidity (STAA)	Potential Chromium Reducible Sulfur (S _{CR}) %S	Potential Acidity - Peroxide Oxidisable Sulfur (S _{POX}) %S	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)* %S	Net Acidity (acidic units) mole H ⁺ / t	Is this ASS?	Is this PASS?	ALS limiting rate for net acidity (PASS+ASS) kg CaCO ₃ /t
Units	Subsite	Depth (m)	Sample No.	Analysis	(Folk Classification)										
LOR							% pyrite S	%S	%S	% CaCO ₃	%S	10			1
							0.02	0.02	0.02	0.01 or 0.02	0.02	Trigger value = 0.03	Trigger value = 18		
1	1	1	AS 1/1.0	Cr suite	mud	5.7	<0.02	0.02	-	-	0.03	20	No	Yes	2
1	1	1.5	AS 1/1.5	SPOCAS	muddy sand	6.1	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
1	1	2	AS 1/2.0	Cr suite	muddy sand	6.1	<0.02	<0.02	-	-	0.02	16	No	No	N/A
1	1	2.25	AS 1/2.25	SPOCAS	muddy sand	6.2	<0.02	-	<0.02	0.07	<0.02	<10	No	No	N/A
1	1	2.5	AS 1/2.5	Cr suite	muddy sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
1	1	3	AS 1/3.0	Cr suite	muddy sand	6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2	2	0.25	AS2/0.25	Cr suite	sandy mud	5.1	0.02	<0.02	-	-	0.04	24	No	Yes	2
2	2	0.75	AS 2/0.75	Cr suite	sandy mud	5.3	<0.02	<0.02	-	-	<0.02	12	No	No	N/A
2	2	1.25	AS 2/1.25	Cr suite	muddy sand	6	<0.02	<0.02	-	-	0.03	18	No	Yes	1
2	2	1.5	AS2/1.5	SPOCAS	muddy sand	6	<0.02	-	<0.02	0.09	<0.02	<10	No	No	N/A
2	2	1.75	AS2/1.75	Cr suite	sandy clay	5.7	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2	2	2.25	AS2/2.25	SPOCAS	muddy sand	6.2	<0.02	-	<0.02	0.08	<0.02	<10	No	No	N/A
2	2	2.75	AS 2/2.75	SPOCAS	muddy sand	6.3	<0.02	-	0.02	0.06	<0.02	15	No	No	N/A
2	2	2.75	AS 2/2.75	Cr suite	muddy sand	6.5	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2	2	3	AS 2/3.0	SPOCAS	muddy sand	6.4	<0.02	-	<0.02	<0.02	<0.02	<10	No	No	N/A
3	3	1.5	AS 3/1.5	Cr suite	muddy sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
3	2	2	AS 3/2.0	SPOCAS	muddy sand	5.9	<0.02	-	0.02	-	0.03	21	No	Yes	2
4	4	0.25	AS 4/0.25	Cr suite	sandy mud	5.7	<0.02	<0.02	-	-	<0.02	10	No	No	N/A
4	4	0.5	AS 4/0.5	SPOCAS	sandy mud	6.5	<0.02	-	<0.02	0.33	<0.02	<10	No	No	N/A
4	4	0.75	AS 4/0.75	Cr suite	sandy mud	7.7	<0.02	<0.02	-	0.55	<0.02	<10	No	No	N/A
4	4	1.25	AS 4/1.25	SPOCAS	sandy mud	6.4	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
4	4	1.5	AS 4/1.5	Cr suite	sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
4	4	1.75	AS 4/1.75	Cr suite	sand	6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
51		1.25	AS 51/1.25	SPOCAS	sandy mud	6.8	<0.02	-	<0.02	<0.02	<0.02	<10	No	No	N/A
51	I	1.75	AS 51/1.75	Cr suite	muddy sand	5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
51		2.25	AS 51/2.25	SPOCAS	muddy sand	5.8	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
6A	A	0.25	AS 6A/0.25	SPOCAS	muddy sand	5.4	<0.02	-	<0.02	-	0.03	17	No	Marginal	1
6A	A	0.5	AS 6A/0.5	Cr suite	mud	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
6A	A	1.75	AS 6A/1.75	Cr suite	muddy sand	8.5	<0.02	<0.02	-	0.38	<0.02	<10	No	No	N/A
6A	A	2	AS 6A/2.0	SPOCAS	muddy sand	6.9	<0.02	<0.02	<0.02	<0.02	<0.02	<10	No	No	N/A
6A	A	3	AS 6A/3.0	Cr suite	muddy sand	7.5	<0.02	<0.02	-	0.46	<0.02	<10	No	No	N/A
7D	D	0.5	AS 7D/0.5	Cr suite	sandy mud	6.4	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
7D	D	1.25	AS 7D/1.25	SPOCAS	muddy clay	6	<0.02	-	0.06	-	0.07	45	No	Yes	3
7D	D	1.75	AS 7D/1.75	Cr suite	sand	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
7D	D	2.25	AS 7D/2.25	Cr suite	sand	6.2	<0.02	<0.02	-	-	0.02	15	No	No	N/A
7D	D	2.75	AS 7D/2.75	SPOCAS	sand	6.1	<0.02	-	0.11	-	0.12	73	No	Yes	5
7D	D	3	AS 7D/3.0	SPOCAS	sand	6	<0.02	-	0.1	-	0.11	69	No	Yes	5
7D	D	3.25	AS 7D/3.25	Cr suite	sand	6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
8C	C	0.5	AS 8C/0.5	SPOCAS	mud	5.7	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A

Key ASS analysis Units				Lithology	pH _{ACL}	Sulfidic Titratable Actual Acidity (STAA)	Potential Chromium Reducible Sulfur (S _{CR}) %S	Potential Acidity - Peroxide Oxidisable Sulfur (S _{POX}) %S	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)* %S	Net Acidity (acidity units) mole H+ / t	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS+ASS) kg CaCO ₃ /t
LOR														
Pit ID	Subsite	Depth (m)	Sample No.	Analysis		% pyrite S	%S	%S	% CaCO ₃	Trigger value	Trigger value			
8C	C	1	AS8C/1.0	Cr suite	muddy sand	<0.02	<0.02	-	0.25	<0.02	<10	No	No	N/A
8C	C	1.25	AS 8C/1.25	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
8C	C	2.25	AS8C/2.25	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
8C	C	2.5	AS 8C/2.50	Cr suite	muddy sand	<0.02	<0.02	-	-	0.02	15	No	No	N/A
8C	C	2.75	AS 8C/2.75	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
8C	C	3	AS 8C/3.0	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
9		1.25	AS 9/1.25	Cr suite	sandy mud	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
9		1.5	AS 9/1.5	SPOCAS	muddy sand	<0.02	-	<0.02	0.04	<0.02	<10	No	No	N/A
9		1.75	AS 9/1.75	SPOCAS	muddy sand	<0.02	-	0.1	0.03	0.03	17	No	Yes	1
9		2	AS 9D/2.0	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
9		2.25	AS 9D/2.25	SPOCAS	clay	<0.02	-	0.15	0.18	<0.02	<10	No	Yes	NALR
9		2.5	AS 9D/2.5	SPOCAS	clay	<0.02	-	0.13	0.17	<0.02	<10	No	Yes	NALR
9		2.75	AS 9D/2.75	SPOCAS	clay	<0.02	-	0.05	-	<0.02	10	No	Yes	NALR
9		3	AS 9D/3.0	Cr suite	sand	<0.02	<0.02	-	-	<0.02	11	No	No	N/A
10		0.5	AS 10/0.5	SPOCAS	sandy mud	0.03	-	<0.02	-	0.03	19	Yes	No	1
10		1	AS 10/1.0	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
10		1.5	AS 10/1.5	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
11		0.75	AS 11/0.75	Cr suite	sandy mud	<0.02	<0.02	-	-	0.03	18	No	Yes	1
11		1.75	AS 11/1.75	Cr suite	sandy mud	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
11		2	AS 11/2.0	SPOCAS	sandy mud	<0.02	-	0.16	<0.02	0.17	105	No	Yes	8
11		2.25	AS 11/2.25	SPOCAS	sand	<0.02	-	0.12	<0.02	0.13	80	No	Yes	6
11		2.75	AS 11/2.75	Cr suite	mud	<0.02	<0.02	-	-	0.03	20	No	Yes	1
12		1.25	AS 12/1.25	Cr suite	sandy silt	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
12		2	AS 12/2.0	SPOCAS	sandy silt	<0.02	<0.02	<0.02	0.04	<0.02	<10	No	No	N/A
12		2.25	AS 12/2.25	Cr suite	sandy silt	<0.02	<0.02	-	-	0.02	15	No	No	N/A
13		1.5	AS 13/1.5	SPOCAS	gravely sand	<0.02	-	0.04	-	0.04	28	No	Yes	2
13		2.25	AS 13/2.25	Cr suite	gravely sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
13		2.5	AS 13/2.50	Cr suite	gravely sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
13		2.75	AS 13/2.75	SPOCAS	gravely sand	<0.02	-	<0.02	-	<0.02	11	No	No	N/A
13		3	AS 13/3.0	Cr suite	gravely sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
14		0.5	AS 14/0.5	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
14		1.25	AS 14/1.25	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
14		1.5	AS 14/1.5	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
14		2	AS 14/2.0	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
14		2.25	AS 14/2.25	SPOCAS	mud	<0.02	-	0.16	0.23	0.17	109	No	Yes	8
14		2.75	AS 14/2.75	Cr suite	mud	<0.02	>0.02	-	-	<0.02	<10	No	No	N/A
14		3	AS 14/3.0	Cr suite	gravely sand	<0.02	0.05	-	-	0.06	35	No	Yes	3
15		0.5	AS 15/0.5	Cr suite	muddy sand	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
15		1.25	AS 15/1.25	SPOCAS	muddy sand	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
15		1.5	AS 15/1.5	SPOCAS	muddy sand	<0.02	-	<0.02	0.15	<0.02	<10	No	No	N/A
15		2	AS 15/2.0	SPOCAS	sandy mud	<0.02	-	<0.02	0.15	<0.02	<10	No	No	N/A
16B		0.75	AS 16B/0.75	SPOCAS	sandy mud	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
16B		1	AS 16B/1.0	SPOCAS	sandy mud	<0.02	-	<0.02	-	<0.02	10	No	No	N/A
16B	B	1.25	AS 16B/1.25	SPOCAS	sandy mud	0.02	-	<0.02	-	0.02	14	No	No	N/A
16B	B	1.5	AS 16B/1.5	SPOCAS	sandy mud	0.02	-	<0.02	-	0.02	14	No	No	N/A
16B	B	1.75	AS 16B/1.75	SPOCAS	sandy mud	0.03	-	<0.02	-	0.03	19	Yes	No	1

Key ASS analysis				Lithology		pH _{EC}	Sulfidic Titratable Actual Acidity (sTAA)	Potential Acidity - Chromium Reducible Sulfur (S _{CR})	Potential Acidity - Peroxide Oxidisable Sulfur (S _{PO})	Acid Neutralising Capacity (ANC)		Net Acidity (sulfur units)*	Net Acidity (acidic units) mole H ⁺ / t	Is this ASS?	Is this PASS?	ALS limiting rate for net acidity (PASS+ASS) kg CaCO ₃ /t
Units	Subsite	Depth (m)	Sample No.	Analysis	(Folk Classification)					% CaCO ₃	Trigger value	%S	Trigger value			
LOR							% pyrite S	%S	0.02	0.01 or 0.02	0.02	0.02	10			1
Pit ID	B	2.25	AS 16B/2.25	Cr suite	sandy mud	5.1	0.03	<0.02		-	0.03	<0.02	20	Yes	No	2
16B	B	2.5	AS 16B/2.5	SPOCAS	sandy mud	5.8	<0.02	-	<0.02	0.07	<0.02	<0.02	<10	No	No	N/A
16B	B	2.75	AS 16B/2.75	SPOCAS	muddy sand	6.1	<0.02	-	<0.02	0.02	<0.02	<0.02	<10	No	No	N/A
16B	B	3	AS 16B/3.0	SPOCAS	muddy sand	6.3	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
17		0.5	AS 17/0.5	SPOCAS	sand	6.5	<0.02	-	<0.02	0.12	<0.02	<0.02	<10	No	No	N/A
17		1	AS 17/1.0	Cr suite	muddy sand	6.3	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
17		1.5	AS 17/1.5	SPOCAS	muddy sand	5.6	<0.02	-	<0.02	0.24	<0.02	<0.02	11	No	No	N/A
17		2	AS 17/2.0	Cr suite	mud	5.6	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
17		2.25	AS 17/2.25	SPOCAS	mud	5.8	<0.02	-	<0.02	0.02	<0.02	<0.02	<10	No	No	N/A
18		0.25	AS 18/0.25	SPOCAS	muddy sand	6	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
18		1	AS 18/1.0	SPOCAS	muddy sand	5.9	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
18		1.5	AS 18/1.5	Cr suite	muddy sand	6.4	<0.02	<0.02	-	-	<0.02	<0.02	11	No	No	N/A
18		1.75	AS 18/1.75	SPOCAS	muddy sand	6.3	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
19		0.25	AS 19/0.25	Cr suite	sandy mud	6.2	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
19		0.5	AS 19/0.5	Cr suite	sandy mud	5.8	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	Yes	1
19		1.5	AS 19/1.5	Cr suite	gravely sand	6.1	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
20		0.5	AS 20/0.5	SPOCAS	sandy mud	5.7	<0.02	-	0.1	-	0.11	<0.02	66	No	Yes	5
20		1	AS 20/1.0	Cr suite	sandy mud	5.5	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
20		1.25	AS 20/1.25	SPOCAS	sandy mud	6.1	<0.02	-	0.08	<0.02	0.08	<0.02	50	No	Yes	4
20		2	AS 20/2.0	SPOCAS	clay	6.7	<0.02	-	0.1	0.34	<0.02	<0.02	<10	No	Yes	NALR
20		2.25	AS 20/2.25	SPOCAS	clay	6.7	<0.02	-	0.09	0.34	<0.02	<0.02	<10	No	Yes	NALR
20		2.5	AS 20/2.5	SPOCAS	clay	7.2	<0.02	-	0.06	-	0.02	<0.02	13	No	Yes	NALR
20		2.75	AS 20/2.75	SPOCAS	clay	6.9	<0.02	-	0.08	-	0.23	<0.02	141	No	Yes	10
20		3	AS 20/3.0	Cr suite	clay	6.9	<0.02	0.49	-	0.59	0.37	<0.02	230	No	Yes	17
20		3.25	AS 20/3.25	Cr suite	sand	6.5	<0.02	0.04	-	-	0.04	<0.02	24	No	Yes	2
21		0.5	AS 21/0.5	Cr suite	sandy mud	5.6	0.03	<0.02	-	-	0.03	<0.02	17	Marginal	No	1
21		0.75	AS 21/0.75	Cr suite	mud	5.5	0.03	<0.02	-	-	0.03	<0.02	16	Marginal	No	1
21		1.25	AS 21/1.25	Cr suite	sandy mud	5.9	<0.02	<0.02	-	-	0.03	<0.02	18	Yes	No	1
21		1.5	AS 21/1.5	SPOCAS	mud	5.6	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
21		2.25	AS 21/2.25	Cr suite	gravely sand	5.6	<0.02	<0.02	-	-	<0.02	<0.02	12	No	No	N/A
22		0.25	AS 22/0.25	Cr suite	sandy mud	5.6	<0.02	<0.02	-	-	<0.02	<0.02	11	No	No	N/A
22		1	AS 22/1.0	Cr suite	gravely sand	6.2	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
23		1	AS 23/1.0	Cr suite	sand	6	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
23		2	AS 23/2.0	Cr suite	sand	5.6	<0.02	<0.02	-	-	<0.02	<0.02	11	No	No	N/A
24		1.25	AS 24/1.25	SPOCAS	gravely sand	7.5	<0.02	-	0.03	<0.02	<0.02	<0.02	<10	No	Yes	NALR
25		0.5	AS 25/0.5	SPOCAS	sand	5.9	<0.02	-	<0.02	-	<0.02	<0.02	<10	No	No	N/A
25		0.75	AS 25/0.75	Cr suite	sand	6.3	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
25		1.5	AS 25/1.50	SPOCAS	sand	6.6	<0.02	-	<0.02	0.14	<0.02	<0.02	<10	No	No	N/A
26		0.25	AS 26/0.25	SPOCAS	sand	6.1	<0.02	-	0.03	-	0.04	<0.02	24	No	Yes	2
26		0.5	AS 26/0.5	SPOCAS	sand	6.1	<0.02	-	0.04	-	0.04	<0.02	27	No	Yes	2
26		0.75	AS 26/0.75	Cr suite	sand	6.2	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
27		1.25	AS 27/1.25	Cr suite	clay	5.8	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
27		1.5	AS 27/1.50	SPOCAS	sand	6.3	<0.02	-	<0.02	0.02	<0.02	<0.02	<10	No	No	N/A
27		2	AS 27/2.0	Cr suite	sand	6.3	<0.02	<0.02	-	-	<0.02	<0.02	<10	No	No	N/A
27		2.75	AS 27/2.75	SPOCAS	sand	6.6	<0.02	-	0.03	<0.02	<0.02	<0.02	<10	No	Yes	NALR
27		3	AS 27/3.0	Cr suite	sand	6.6	<0.02	<0.02	-	0.36	<0.02	<0.02	<10	No	No	N/A

Key ASS analysis															
Units	Lithology			pH _{ACL}	Sulfidic Titratable Actual Acidity (STAA)	Potential Acidity – Chromium Reducible Sulfur (S _{CR})	Potential Acidity - Peroxide Oxidisable Sulfur (S _{POX})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acidity units)	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS+ASS) (kg CaCO ₃ /t)		
LOR	Subsite	Depth (m)	Sample No.	Analysis	(Folk Classification)	% pyrite S	%S	%S	% CaCO ₃	kg CaCO ₃ / t			1		
Pit ID						0.02	0.02		0.01 or 0.02	10					
									Trigger value =0.03	Trigger value =18					
28	1		AS 28/1.0	SPOCAS	mud	<0.02	-	0.05	-	17	No	Yes	1		
28		1.75	AS 28/1.75	Cr suite	muddy sand	<0.02	<0.02	-	-	14	No	No	N/A		
28		2	AS 28/2.0	Cr suite	muddy sand	0.03	<0.02	-	-	22	Yes	No	2		
28		2.25	AS 28/2.25	Cr suite	muddy sand	0.03	<0.02	-	-	32	Yes	No	2		
28		2.5	AS 28/2.5	SPOCAS	muddy sand	<0.02	-	0.02	-	25	No	Yes	2		
28		2.75	AS 28/2.75	SPOCAS	muddy sand	<0.02	-	<0.02	-	<10	No	No	N/A		
28		3	AS 28/3.0	Cr suite	muddy sand	0.02	<0.02	-	-	14	No	No	N/A		
29		0.5	AS 29/0.5	Cr suite	muddy sand	0.02	<0.02	-	-	<10	No	No	N/A		
29		0.75	AS 29/0.75	Cr suite	muddy sand	<0.02	<0.02	-	0.41	<10	No	No	N/A		
30		0.75	AS 30/0.75	Cr suite	sandy clay	<0.02	<0.02	-	-	19	No	Yes	1		
30		1	AS 30/1.0	Cr suite	sand	<0.02	<0.02	-	-	<10	No	No	N/A		
30		1.25	AS 30/1.25	Cr suite	sand	<0.02	<0.02	-	-	15	No	No	N/A		
30		1.75	AS 30/1.75	SPOCAS	sand	<0.02	-	<0.02	-	<10	No	No	N/A		
30		2.25	AS 30/2.25	SPOCAS	sand	0.03	-	0.02	-	31	Yes	No	2		
31		1.25	AS 31/1.25	SPOCAS	muddy sand	<0.02	-	<0.02	-	10	No	No	N/A		
31		1.75	AS 31/1.75	Cr suite	muddy sand	<0.02	<0.02	-	-	<10	No	No	N/A		
31		2.25	AS 31/2.25	Cr suite	muddy sand	<0.02	<0.02	-	-	<10	No	No	N/A		
31		2.5	AS 31/2.5	SPOCAS	muddy sand	<0.02	-	<0.02	-	<10	No	No	N/A		
31		2.75	AS 31/2.75	Cr suite	muddy sand	<0.02	<0.02	-	-	<10	No	No	N/A		
31		3	AS 31/3.0	SPOCAS	muddy sand	<0.02	-	<0.02	-	<10	No	No	N/A		
32		1.75	AS 32/1.75	SPOCAS	sandy mud	<0.02	-	<0.02	-	<10	No	No	N/A		
32		1.75	AS 32/1.75 (dup)	SPOCAS	sandy mud	<0.02	-	0.08	0.22	<10	No	Yes	NALR		
32		2.25	AS 32/2.25	SPOCAS	sandy mud	<0.02	<0.02	0.05	-	40	No	Yes	3		
32		2.5	AS 32/2.5	Cr suite	sandy mud	0.04	<0.02	-	-	26	Yes	No	2		
32		2.75	AS 32/2.75	SPOCAS	sandy mud	0.03	-	<0.02	-	28	Yes	No	3		
32		3	AS 32/3.0	Cr suite	sandy mud	<0.02	<0.02	-	-	<10	No	No	N/A		
32		3.25	AS 32/3.25	SPOCAS	sandy mud	<0.02	-	0.06	-	44	No	Yes	3		
33		0.5	AS 33/0.5	Cr suite	sandy mud	<0.02	<0.02	-	-	11	No	No	N/A		
33		1.5	AS 33/1.5	SPOCAS	muddy sand	<0.02	-	<0.02	0.04	<10	No	No	N/A		
33		2.25	AS 33/2.25	Cr suite	muddy sand	<0.02	<0.02	-	-	<10	No	No	N/A		
33		2.5	AS 33/2.5	Cr suite	muddy sand	<0.02	<0.02	-	-	<10	No	No	N/A		
33		3	AS 33/3.0	SPOCAS	gravely muddy sand	<0.02	-	<0.02	0.02	<10	No	No	N/A		
34		0.75	AS 34/0.75	Cr suite	sandy mud	0.02	<0.02	-	-	16	No	No	1		
34		2	AS 34/2.0	Cr suite	sandy mud	0.04	<0.02	-	-	28	Yes	No	2		
34		2.25	AS 34/2.25	SPOCAS	sandy clay	0.05	-	<0.02	-	33	Yes	No	2		
34		2.5	AS 34/2.50	Cr suite	sandy clay	0.06	<0.02	-	-	34	Yes	No	2		
34		2.75	AS 34/2.75	SPOCAS	sandy clay	0.05	-	0.02	-	49	Yes	No	4		
34		3	AS 34/3.0	SPOCAS	sandy clay	0.06	-	<0.02	-	45	Yes	No	3		
35		1	AS 35/1.0	Cr suite	sandy mud	<0.02	<0.02	-	-	<10	No	No	N/A		
35		1.25	AS 35/1.25	SPOCAS	sandy mud	<0.02	-	<0.02	-	<10	No	No	N/A		
35		1.75	AS 35/1.75	SPOCAS	sandy clay	0.04	-	<0.02	-	34	Yes	No	2		
35		2	AS 35/2.0	Cr suite	sandy clay	0.04	<0.02	-	-	24	Yes	No	2		
35		2.5	AS 35/2.5	SPOCAS	sandy clay	0.05	-	<0.02	-	44	Yes	No	3		
35		2.75	AS 35/2.75	SPOCAS	sandy clay	0.05	-	<0.02	-	41	Yes	No	3		
35		3	AS 35/3.0	Cr suite	sandy clay	0.04	0.05	-	-	57	Yes	No	4		

Key ASS analysis										Lithology	pH _{act}	Sulfidic Titratable Acidity (STAA)	Potential Acidity - Chromium Reducible Sulfur (S _{cr})	Potential Acidity - Peroxide Oxidisable Sulfur (S _{po})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acidity units)	Is this ASS?	Is this PASS?	ALS limiting rate for net acidity (PASS+ASS) (kg CaCO ₃ /t)
Units										(Folk Classification)		% pyrite S	%S	%S	% CaCO ₃	%S	mole H+ / t			
LOR												0.02	0.02	0.02	0.01 or 0.02	0.02	10			1
Pit ID	Subsite	Depth (m)	Sample No.	Analysis											Trigger value	Trigger value				
36		0.5	AS 36/0.5	Cr suite	Analysis	sandy mud	5.4	<0.02	-	<0.02	-	<0.02	-	<0.02	12	<0.02	No	No	N/A	
36		1.5	AS 36/1.5	SPOCAS		sandy clay	6.8	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
36		1.75	AS 36/1.75	Cr suite		sandy clay	6.6	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
36		2	AS 36/2.0	SPOCAS		sandy clay	6.5	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
36		2.25	AS 36/2.25	Cr suite		muddy sand	6.4	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
36		2.5	AS 36/2.50	Cr suite		muddy sand	6.1	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
36		2.75	AS 36/2.75	SPOCAS		muddy sand	6.2	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		0.75	AS 37/0.75	Cr suite		sandy mud	8	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		1	AS 37/1.0	SPOCAS		sandy mud	6.4	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		1.5	AS 37/1.5	Cr suite		muddy sand	6.2	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		2.25	AS 37/2.25	SPOCAS		muddy sand	5.8	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		2.5	AS 37/2.5	SPOCAS		muddy sand	5.7	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
37		3	AS 37/3.0	Cr suite		muddy sand	5.5	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		1	AS 38/1.0	SPOCAS		sandy mud	6.3	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		1.5	AS 38/1.50	Cr suite		muddy sand	6.3	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		1.75	AS 38/1.75	SPOCAS		muddy sand	6.5	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		2.25	AS 38/2.25	SPOCAS		muddy sand	6.5	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		2.75	AS 38/2.75	Cr suite		muddy sand	6.1	<0.02	-	<0.02	-	<0.02	-	<0.02	<10	<0.02	No	No	N/A	
38		3	AS 38/3.0	SPOCAS		muddy sand	5.8	<0.02	-	<0.02	-	<0.02	-	<0.02	10	<0.02	No	No	N/A	
39		0.25	AS 39/0.25	SPOCAS		sandy mud	6.2	<0.02	-	<0.02	-	0.03	-	0.03	21	<0.02	No	Yes	2	
39		0.75	AS 39/0.75	SPOCAS		sandy clay	6.2	<0.02	-	<0.02	-	0.07	-	0.08	47	<0.02	No	Yes	4	
39		1.25	AS 39/1.25	Cr suite		sandy clay	6.2	<0.02	-	<0.02	-	0.02	-	0.03	21	<0.02	No	Yes	2	
39		1.5	AS 39/1.5	Cr suite		sandy clay	6.3	<0.02	-	<0.02	-	0.42	-	0.42	266	<0.02	No	Yes	20	
39		1.75	AS 39/1.75	SPOCAS		muddy sand	6.2	<0.02	-	<0.02	-	0.02	-	0.02	15	<0.02	No	No	N/A	
39		2	AS 39/2.0	SPOCAS		gravely muddy sand	6.5	<0.02	-	<0.02	-	-	-	<0.02	<10	<0.02	No	No	N/A	