

* FINAL RESULTS REPORT *
GILBERT & SUTHERLAND PTY LTD

LAB: AMENDED ENVIRO
BATCH-NO: AME14301
SUB BATCH: 0
No. SAMPLES: 72
DATE REC'D: 28/04/98
DATE CHK'D:

O'No: GJ9832

S'TYPE: SOIL

PROJECT:

			Mg(Perox)	S(KCl)	S(Perox)	S(Pos)	TAA	TPA
			%	%	%	%	mole/tonne	mole/tonne
			EA-022	EA-022	EA-022	EA-022	EA-022	EA-022
			0.02	0.02	0.02	0.02	2	2
BH51	1.50m[31]	<0.02	0.16	0.36	0.20	64	128	
BH51	3.00m[32]	<0.02	<0.02	<0.02	<0.02	2	28	
BH51	4.10m[33]	0.04	<0.02	0.08	0.08	2	198	
BH52	1.50m[34]	<0.02	0.22	0.44	0.22	82	180	
BH52	3.25m[35]	<0.02	0.06	0.08	0.02	20	36	
BH52	4.40m[36]	0.04	0.02	0.08	0.06	<2	<2	
BH53	3.50m[37]	0.06	0.04	0.26	0.22	<2	30	
BH53	4.50m[38]	<0.02	0.08	0.12	0.04	30	38	
BH53	5.50m[39]	<0.02	0.14	0.28	0.14	46	110	
BH54	1.50m[40]	0.18	0.32	2.40	2.08	56	912	
BH54	4.25m[41]	0.26	0.32	2.38	2.06	14	840	
BH54	5.75m[42]	0.26	0.42	3.02	2.60	48	992	
BH55	1.50m[43]	<0.02	<0.02	<0.02	<0.02	4	26	
BH55	2.30m[44]	<0.02	0.04	0.04	<0.02	6	34	
BH56	0.80m[45]	<0.02	0.10	0.22	0.12	36	76	
BH56	2.25m[46]	<0.02	0.04	0.12	0.08	20	58	
BH56	3.50m[47]	<0.02	0.04	0.06	0.02	16	18	
BH56	5.00m[48]	<0.02	0.04	0.06	0.02	20	20	
BH57	0.90m[49]	0.08	0.20	1.48	1.28	44	544	
BH57	2.00m[50]	0.04	0.16	0.60	0.44	40	318	
BH57	3.50m[51]	<0.02	0.06	0.14	0.08	22	46	
BH57	6.00m[52]	<0.02	0.02	0.14	0.12	4	64	
BH58	2.00m[53]	0.10	0.18	1.56	1.38	34	476	
BH58	3.10m[54]	0.08	0.22	1.26	1.04	38	536	
BH58	4.50m[55]	0.10	0.22	1.66	1.44	36	620	
BH58	5.50m[56]	0.10	0.32	1.74	1.42	54	692	
BH59	2.00m[57]	0.16	0.22	1.40	1.18	30	460	
BH59	3.25m[58]	0.28	0.48	2.28	1.80	48	614	
BH59	4.50m[59]	0.04	0.10	0.64	0.54	16	204	
BH59	5.70m[60]	0.42	0.50	3.10	2.60	10	704	

Wet to Dry Calc NOT Performed.

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S' TYPE: SOIL

PROJECT:

			Mg(Perox) % FA-022 0.02	S(KCl) % EA-022 0.02	S(Perox) % EA-022 0.02	S(Pos) % EA-022 0.02	TAA mole/tonne EA-022 2	TPA mole/tonne EA-022 2
BH60	2.25m[61]		0.04	0.12	0.78	0.66	36	338
BH60	2.75m[62]		<0.02	0.08	0.22	0.14	30	86
BH60	5.50m[63]		0.12	0.26	1.46	1.20	60	506
BH61	2.40m[64]		0.18	0.38	1.56	1.18	46	626
BH61	3.90m[65]		0.12	0.18	1.10	0.92	20	448
BH61	5.50m[66]		0.18	0.38	1.90	1.52	48	852
BH62	1.75m[67]		<0.02	0.18	0.38	0.20	60	184
BH62	4.10m[68]		<0.02	0.02	0.04	0.02	8	12
BH62	5.50m[69]		<0.02	<0.02	0.04	0.04	<2	<2

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O'No: GJ9832

S'TYPE: SOIL

PROJECT:

			TSA mole/tonne EA-022 2	pH(KCl) EA-022 0.1
BH43a	1.80m[	1]	1430	3.6
BH43a	2.25m[	2]	240	3.8
BH43a	2.75m[	3]	54	3.3
BH43b	1.05m[	4]	248	3.8
BH43b	1.60m[	5]	80	3.9
BH43b	2.25m[	6]	<2	3.3
BH44	2.50m[	7]	428	3.4
BH44	3.30m[	8]	60	3.6
BH44	4.00m[	9]	336	3.4
BH44	4.75m[	10]	568	3.3
BH45	1.50m[	11]	172	3.9
BH45	4.00m[	12]	562	3.4
BH45	5.50m[	13]	104	3.7
BH46	2.90m[	14]	1040	3.1
BH46	3.90m[	15]	28	2.9
BH46	5.60m[	16]	188	3.8
BH47	0.70m[	17]	2460	3.7
BH47	2.25m[	18]	20	3.1
BH47	3.50m[	19]	32	3.1
BH47	5.75m[	20]	230	3.3
BH48	2.75m[	21]	392	3.4
BH48	4.00m[	22]	32	3.4
BH48	5.50m[	23]	6	3.5
BH49	1.25m[	24]	10	3.0
BH49	2.50m[	25]	36	4.1
BH49	4.25m[	26]	26	3.6
BH49	5.90m[	27]	176	3.7
BH50	2.75m[	28]	604	3.3
BH50	4.75m[	29]	958	3.3
BH50	5.80m[	30]	872	3.2

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S'TYPE: SOIL

PROJECT:

			TSA mole/tonne EA 022 2	pH(KCl) EA-022 0.1
BH51	1.50m[31]		64	2.9
BH51	3.00m[32]		26	5.1
BH51	4.10m[33]		196	5.4
BH52	1.50m[34]		98	3.1
BH52	3.25m[35]		16	4.0
BH52	4.40m[36]		<2	5.7
BH53	3.50m[37]		30	6.4
BH53	4.50m[38]		8	3.1
BH53	5.50m[39]		64	3.2
BH54	1.50m[40]		856	3.6
BH54	4.25m[41]		826	4.0
BH54	5.75m[42]		944	3.4
BH55	1.50m[43]		22	3.9
BH55	2.30m[44]		28	4.3
BH56	0.80m[45]		40	3.1
BH56	2.25m[46]		38	3.6
BH56	3.50m[47]		2	3.5
BH56	5.00m[48]		<2	3.3
BH57	0.90m[49]		500	3.4
BH57	2.00m[50]		278	3.4
BH57	3.50m[51]		24	3.7
BH57	6.00m[52]		60	4.0
BH58	2.00m[53]		442	3.6
BH58	3.10m[54]		498	3.6
BH58	4.50m[55]		584	3.4
BH58	5.50m[56]		638	3.3
BH59	2.00m[57]		430	3.6
BH59	3.25m[58]		566	3.5
BH59	4.50m[59]		188	3.8
BH59	5.70m[60]		694	4.2

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DATE-CHK'D:

D'No: GJ9832

S'TYPE: SOIL

PROJECT:

			TSA mole/tonne EA-022 2	pH(KCl) EA 022 0.1
BH60	2.25m[61]		302	3.5
BH60	2.75m[62]		56	3.4
BH60	5.50m[63]		446	3.3
BH61	2.40m[64]		580	3.6
BH61	3.90m[65]		428	3.9
BH61	5.50m[66]		804	3.5
BH62	1.75m[67]		124	3.2
BH62	4.10m[68]		4	4.2
BH62	5.50m[69]		<2	5.5

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DATE-CHK'D:

O'No: GJ9832

S'TYPE: QUALITY CONTROL

PROJECT:

	pH (H2O2)	Ca(A) %	Ca(KCl) %	Ca(Perox) %	Mg(A) %	Mg(KCl) %
	EA-002 0.1	EA-022 0.02	EA-022 0.02	EA-022 0.02	EA-022 0.02	EA-022 0.02
*** BH44 4.75m CHK[73]	1.8	0.02	0.08	0.10	0.02	0.04
*** BH47 5.75m CHK[74]	2.3	0.02	0.04	0.06	<0.02	0.04
*** BH54 1.50m CHK[76]	1.8	0.08	0.10	0.18	0.10	0.12
*** BH57 2.00m CHK[77]	2.2	<0.02	0.02	0.02	0.02	0.02
*** BH59 5.70m CHK[78]	2.0	0.30	0.30	0.60	0.28	0.16

Wet to Dry Calc NOT Performed.

Results which appear on this report are routine laboratory checks for QUALITY CONTROL purposes.

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DATE-CHK'D:

O'No: GJ9832

S'TYPE: QUALITY CONTROL

PROJECT:

	Mg(Perox) %	S(KCl) %	S(Perox) %	S(Pos) %	TAA mole/tonne	IPA mole/tonne
	EA-022	EA-022	EA-022	EA-022	EA-022	EA-022
	0.02	0.02	0.02	0.02	2	2
*** BH44 4.75m CHK[73]	0.06	0.20	1.24	1.04	34	588
*** BH47 5.75m CHK[74]	0.04	0.12	0.62	0.50	30	268
*** BH54 1.50m CHK[76]	0.22	0.32	2.94	2.62	56	948
*** BH57 2.00m CHK[77]	0.04	0.14	0.56	0.42	42	302
*** BH59 5.70m CHK[78]	0.44	0.50	3.18	2.68	10	724

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No. SAMPLES: 72
DATE-REC'D: 28/04/98
DATE-CHK'D:

O'No: GJ9832

S' TYPE: QUALITY CONTROL

PROJECT:

	TSA mole/lonic FA-022 2	pH(KCl) EA-022 0.1
*** BH41 4.75m CHK[73]	554	3.3
*** BH47 5.75m CHK[74]	238	3.4
*** BH54 1.50m CHK[76]	892	3.6
*** BH57 2.00m CHK[77]	260	3.4
*** BH59 5.70m CHK[78]	714	4.2

Wet to Dry Calc NOT Performed.

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Provisional Test Results - Chromium Reducible Sulphur

Issued: 4/6/07, 11:46 AM

Job. No. : GSM1514 Project : GJ0350, for Gilbert & Sutherland

Sam No.	Client I.D.	Date Sampled /Tested	Description	Reactions Peroxide Acid Shell Size	Density (t/m ³) M/C (%)	pH _{KCl}	SCr (mol H ⁺ /t) (%S)	TAA (mol H ⁺ /t) %S	ANC SNAS (mol H ⁺ /t)	Liming Rate (Kg/dry t)
9322	TS01 0.00	30/06/2007 1/06/2007	Silty SAND (SM), fine grained, dark grey, moist.	Nil Nil	- 5.2	3.9	0 0.00	30 0.05	- 0	2.3
9323	TS01 0.50	30/06/2007 1/06/2007	SAND (SP), fine grained, grey-brown, moist.	Nil Nil	- 8.2	5.3	0 0.00	2 0.00	-	nil
9324	TS01 1.00	30/06/2007 1/06/2007	SAND (SP), fine grained, grey-brown, moist.	Nil Nil	- 8.4	5.5	0 0.00	3 0.00	-	nil
9325	TS01 1.50	30/06/2007 1/06/2007	SAND (SP), fine grained, dark grey-brown, moist.	Nil Nil	- 8.9	3.8	0 0.00	25 0.04	- 0	1.9
9326	TS01 2.00	30/06/2007 1/06/2007	SAND (SP), fine grained, dark grey-brown, moist.	Slight Nil	- 13.7	3.8	6 0.01	35 0.06	- 0	3.2
9327	TS01 2.50	30/06/2007 1/06/2007	SAND (SP), fine grained, dark grey-brown, moist.	Slight Nil	- 11.8	3.9	7 0.01	30 0.05	- 0	2.8
9328	TS01 4.50	30/06/2007 1/06/2007	SAND (SP), fine grained, brown, dark brown, moist.	Slight Nil	- 11.7	4.6	11 0.02	35 0.06	-	3.5
9329	TS01 5.00	30/06/2007 1/06/2007	SAND (SP), fine grained, brown, dark brown, moist.	Slight Nil	- 12.0	4.8	11 0.02	17 0.03	-	2.2

Test method follows procedures described in Acid Sulfate Soils Laboratory Methods Guidelines - Version 2.1

Liming rate is calculated from SCr + TAA using a supplied combined safety and neutralising factor of 155.0% and composite action level of 18 mol H⁺/t. ie. TAA + (Nas X 0.75) + SCr - (ANC / safety factor).