

Scenario 1 – Soils Data

BH1											
PROFILE DESCRIPTION											
Depth (m)	Graphic Log	Sampling depth/name	Horizon	Texture	Structure	Colour	Mottles	Coarse Fragments	Size of Coarse Fragments	Moisture Condition	Comments
0.1		BH1/1	A	S	Weak	Grey	Nil	< 2%	2-6mm	SM	
0.2		BH1/2	B1	S	Single grained	Grey	Nil	< 2%	2-6mm	SM	
0.3											
0.4											
0.5											
0.6											
0.7		BH1/3	B2	S	Single grained	Light brownish grey	Nil	< 2%	2-6mm	SM	
0.8											
0.9											
1.0											
1.1											
1.2											
1.3											
1.4											
1.5											
BH2											
PROFILE DESCRIPTION											
Depth (m)	Graphic Log	Sampling depth/name	Horizon	Texture	Structure	Colour	Mottles	Coarse Fragments	Size of Coarse Fragments	Moisture Condition	Comments
0.1		BH2/1	A	S	Single grained	Grey	Nil	< 2%	2-6mm	D	
0.2		BH2/2	B	S	Single grained	Grey	Nil	< 2%	2-6mm	SM	
0.3											
0.4											
0.5											
0.6											
0.7											
0.8											
0.9											
1.0											
1.1											
1.2											
1.3											
1.4											
1.5											

Scenario 1 – Soils Data
Soil data summary

Sheet 1 - Soil Sampling Schedule and Results of pH, EC and Emerson Aggregate Test Analysis												
Site	Sample Name	Sample Depth (mm)	Texture Class	EAT [1]	Rating [2]	pH _f [3]	pH _{1:5} [4]	Rating	EC _{1:5} (µS/cm)	EC _e (dS/m) [5]	Rating	Other analysis [6]
	BH1/1	100	S	N/A	N/A	n/a	6.11	Slightly acid	64	1.47	Non-saline	
	BH1/2	600	S	N/A	N/A	n/a	5.70	Moderately acid	24	0.55	Non-saline	
	BH1/3	1500	S	N/A	N/A	n/a	5.16	Strongly acid	22	0.51	Non-saline	
	BH2/1	100	S	N/A	N/A	n/a	5.95	Moderately acid	40	0.92	Non-saline	
	BH2/3	500	S	N/A	N/A	n/a	4.75	Very strongly acid	25	0.58	Non-saline	
Notes:- (also refer Interpretation Sheet 1)												
n/a	not available											
n/t	not tested											
[1]	The modified Emerson Aggregate Test (EAT) provides an indication of soil susceptibility to dispersion.											
[2]	Ratings describe the likely hazard associated with land application of treated wastewater.											
[3]	pH measured in the field using Raupac Indicator.											
[4]	pH measured on 1:5 soil:water suspensions using a <i>Hanna Combo</i> hand-held pH/EC/temp meter.											
[5]	Electrical conductivity of the saturated extract (Ece) = EC _{1:5} (µS/cm) x MF / 1000. Units are dS/m. MF is a soil texture multiplication factor.											
[6]	External laboratories used for the following analyses, if indicated: • CEC (Cation exchange capacity) • Psorb (Phosphorus sorption capacity) • Bray Phosphorus • Organic carbon • Total nitrogen											

Local site soil results

Sheet 2 - Results of External Laboratory Analysis															
Name	Depth (m)	CEC (me/100g)	Rating	Ca (mg/kg)	Rating	Mg (mg/kg)	Rating	Na (mg/kg)	Rating	K (mg/kg)	Rating	ESP (%)	Rating	P-sorp. (mg/kg)	Rating
BH1	0.60	0.9	VL	15	VL	11	VL	7	VL	5	VL	3.8	NS	44	L