

Appendix C

RESULTS OF SOAK TESTS – HOLMES HUB SITE



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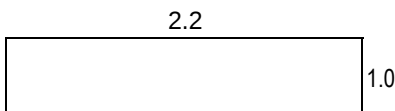
Soak Test in Open Excavation

Test No.

TP H-1

Client	Selwyn Plantation Board Ltd		Location (measured using hand held GPS)	1547696 , 5172033	Date	12/09/2008	
Project	SPBL Rolleston Plan Change		Engineer	CG	Weather Conditions	cloudy/dry	
						Job Number	36951-001

Test Pit Dimensions (m)



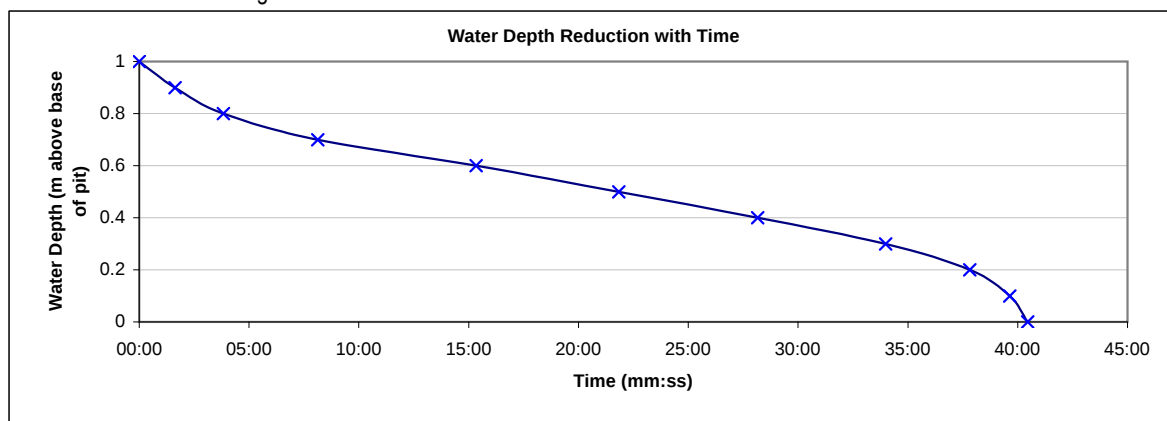
Depth of water added: 1.0 m above base of pit

Volume of water added: 2.2 m³

Time taken for water to soak away:

Water depth (m)	Time	Flow Rate m ³ /sec
1	00:00	-
0.9	01:38	0.00224
0.8	03:50	0.00167
0.7	08:08	0.00085
0.6	15:20	0.00051
0.5	21:50	0.00056
0.4	28:10	0.00058
0.3	33:59	0.00063
0.2	37:49	0.00096
0.1	39:38	0.00202
0	40:27	0.00449

Flow rate of water into the ground



Calculated Flow Rate

maximum	0.00449 m ³ /sec
minimun	0.00051 m ³ /sec
average	0.00082 m ³ /sec



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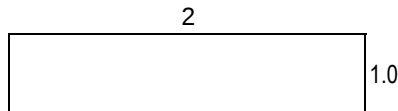
Soak Test in Open Excavation

Test No.

TP H-2

Client	Selwyn Plantation Board Ltd		Location (measured using hand held GPS)	1547734, 5171797	Date	12/09/2008
Project	SPBL Rolleston Plan Change		Engineer	CG	Weather Conditions	cloudy/dry
					Job Number	36951-001

Test Pit Dimensions (m)



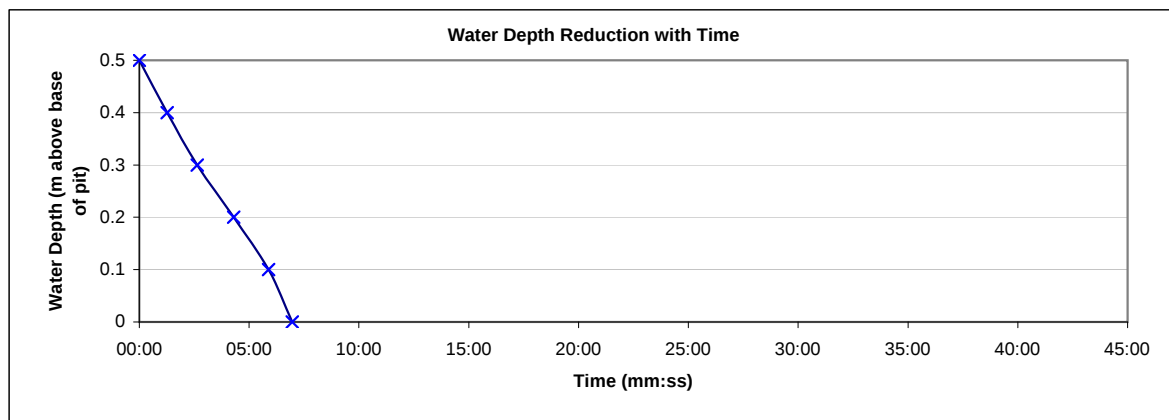
Depth of water added: 0.5 m above base of pit

Volume of water added: 1.0 m³

Time taken for water to soak away:

Water depth (m)	Time	Flow Rate m ³ /sec
0.5	00:00	-
0.4	01:16	0.00263
0.3	02:38	0.00244
0.2	04:18	0.00200
0.1	05:53	0.00211
0	06:58	0.00308

Flow rate of water into the ground



Calculated Flow Rate

maximum	0.00308 m ³ /sec
minimun	0.00200 m ³ /sec
average	0.00245 m ³ /sec

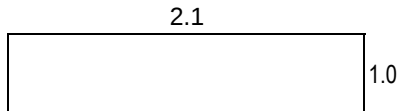
Soak Test in Open Excavation

Test No.

TP H-3

Client	Selwyn Plantation Board Ltd		Location (measured using hand held GPS)	1547283, 5171554	Date	12/09/2008
Project	SPBL Rolleston Plan Change		Engineer	CG	Weather Conditions	cloudy/dry
					Job Number	36951-001

Test Pit Dimensions (m)



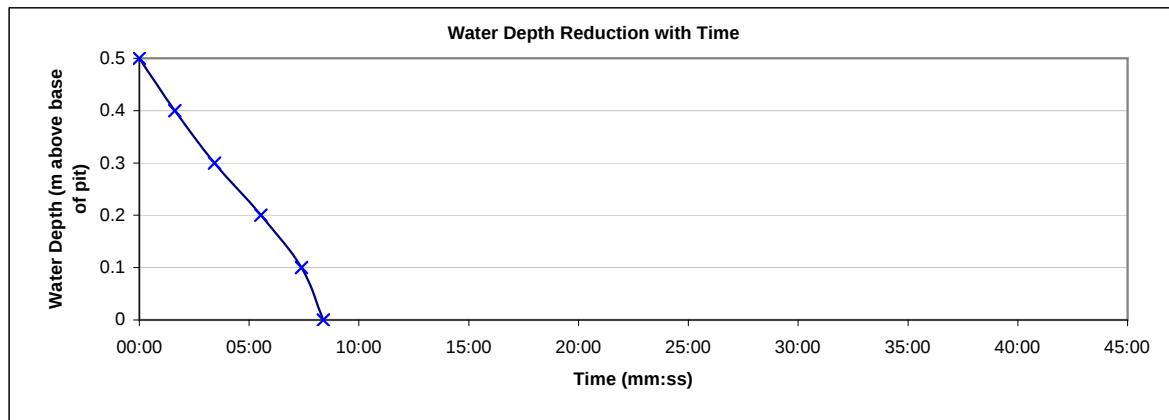
Depth of water added: 0.5 m above base of pit

Volume of water added: 1.05 m³

Time taken for water to soak away:

Water depth (m)	Time	Flow Rate m ³ /sec
0.5	00:00	-
0.4	01:37	0.00216
0.3	03:25	0.00194
0.2	05:32	0.00165
0.1	07:23	0.00189
0	08:23	0.00350

Flow rate of water into the ground

Calculated Flow Rate

maximum	0.00350 m ³ /sec
minimun	0.00165 m ³ /sec
average	0.00191 m ³ /sec