

TRIAL PIT RECORD							
Contract: CHURCHTOWN WASTEWATER TREATMENT PLANT No. Location: Treatment Plant Site Client: Date: 04/10/2005					PIT No. 1 Sheet Excavation Method: JCB Ground Level:		
Description	Rod Level	Legend	Depth (m) bgl	samples			Remarks
				Ref No	Type	Depth	
TOPSOIL							
Orange/brown clay			0.40				
Gray slaty rock			1.60				
Observations		Groundwater Conditions					
TRIAL PIT ENDED AT 2.1m DEPTH		NO WATER ENCOUNTERED					

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TRIAL PIT RECORD							
Contract: CHURCHTOWN WASTEWATER TREATMENT PLANT No. Location: Treatment Plant Site Client: Date: 04/10/2005					PIT No. 2 Sheet Excavation Method: JCB Ground Level:		
Description	Rod Level	Legend	Depth (m) bgl	samples			Remarks
				Ref No	Type	Depth	
TOPSOIL							
Orange/brown clay			0.20				
Gray slaty rock			1.00				
Observations		Groundwater Conditions					
TRIAL PIT ENDED AT 2.1m DEPTH		NO WATER ENCOUNTERED					

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TRIAL PIT RECORD							
Contract: CHURCHTOWN WASTEWATER TREATMENT PLANT No. Location: Treatment Plant Site Client: Date: 04/10/2005					PIT No. 3 Sheet Excavation Method: JCB Ground Level:		
Description	Rod Level	Legend	Depth (m) bgl	samples			Remarks
				Ref No	Type	Depth	
TOPSOIL							
Orange/brown clay			0.20				
Gray slaty rock			2.20				
Observations		Groundwater Conditions					
TRIAL PIT ENDED AT 2.3m DEPTH MADE GROUND ASSOCIATED WITH ACCESS ROAD NO LONGER IN USE.		NO WATER ENCOUNTERED					

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TRIAL PIT RECORD							
Contract: CHURCHTOWN WASTEWATER TREATMENT PLANT No. Location: Treatment Plant Site Client: Date: 04/10/2005					PIT No. 4 Sheet Excavation Method: JCB Ground Level:		
Description	Rod Level	Legend	Depth (m) bgl	samples			Remarks
				Ref No	Type	Depth	
TOPSOIL							
Gray mottled clay			0.20				
Orange/brown clay			0.20				
Gray slaty rock			2.20				
Observations		Groundwater Conditions					
TRIAL PIT ENDED AT 2.2m DEPTH		WATER TABLE AT 1.8M DEPTH bgl					

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PERCOLATION TEST

Type of Test: T-Test or P-Test

Percolation Test Hole	1	2				
Depth from ground surface to top of hole (mm) (A)	600mm	700mm				
Depth from ground surface to base of hole (mm) (B)						
Depth of hole (mm) [B-A]						
Dimensions of hole [length x breadth (mm)]						
<p>Each hole must be pre-soaked twice before the test is carried out (from 10.00a.m. to 5.00 p.m. and from 5.00 p.m. to the next morning)</p>						
Date of test	05/10/2005	05/10/2005				
Date pre-soaking started	04/10/2005	04/10/2005				
Time filled to 400mm						
Time water level at 300mm						
Percolation Test Hole No.	1	2				
Fill No.	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)
1			4m30s			1m46s
2			4m39s			2m01s
3			5m33s			2m09s
Average Δt			4m54s	Average Δt		1m59s
Average Δt/4 = [Hole No. 1] <u>1.2</u> (t ₁)			Average Δt/4 = [Hole No. 2] <u>0.5</u> (t ₂)			
<p>T-Value = (t₁ + t₂)/2 = _____ (min/25mm)</p>						
<p>Result of Test: T=</p>						
<p>Comments:</p>						

PERCOLATION TEST

Type of Test: T-Test or P-Test

Percolation Test Hole	3	4					
Depth from ground surface to top of hole (mm) (A)	700mm						
Depth from ground surface to base of hole (mm) (B)							
Depth of hole (mm) [B-A]							
Dimensions of hole [length x breadth (mm)]							
<p>Each hole must be pre-soaked twice before the test is carried out (from 10.00a.m. to 5.00 p.m. and from 5.00 p.m. to the next morning)</p>							
Date of test	05/10/2005						
Date pre-soaking started	04/10/2005						
Time filled to 400mm							
Time water level at 300mm							
Percolation Test Hole No.	3	4					
Fill No.	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	
1			50s				
2			58s				
3			1m10s				
Average Δt			0.99m	Average Δt			
Average Δt/4 = [Hole No. 1] <u>0.25</u> (t ₁)			Average Δt/4 = [Hole No. 1] _____ (t ₂)				
<p>T-Value = (t₁ + t₂ + t₃)/2 = <u>0.65</u> (min/25mm)</p>							
<p>Result of Test: T= 0.65</p>							
<p>Comments: Excessive percolation</p>							

PERCOLATION TEST

Type of Test: T-Test or P-Test

Percolation Test Hole	1	2					
Depth from ground surface to top of hole (mm) (A)	400mm	400mm					
Depth from ground surface to base of hole (mm) (B)							
Depth of hole (mm) [B-A]							
Dimensions of hole [length x breadth (mm)]							
<p>Each hole must be pre-soaked twice before the test is carried out (from 10.00a.m. to 5.00 p.m. and from 5.00 p.m. to the next morning)</p>							
Date of test	05/10/2005	05/10/2005					
Date pre-soaking started	04/10/2005	04/10/2005					
Time filled to 400mm							
Time water level at 300mm							
Percolation Test Hole No.	1	2					
Fill No.	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	
1			172			172	
2							
3							
Average Δt			172	Average Δt			172
Average Δt/4 = [Hole No. 1] <u>43</u> (t ₁)			Average Δt/4 = [Hole No. 1] <u>43</u> (t ₂)				
<p>T-Value = (t₁ + t₂)/2 = _____ (min/25mm)</p>							
<p>Result of Test: T=</p>							
<p>Comments: See last page</p>							

PERCOLATION TEST

Type of Test: T-Test or P-Test

Percolation Test Hole	3	4				
Depth from ground surface to top of hole (mm) (A)	400mm	4000mm				
Depth from ground surface to base of hole (mm) (B)						
Depth of hole (mm) [B-A]						
Dimensions of hole [length x breadth (mm)]						
<p>Each hole must be pre-soaked twice before the test is carried out (from 10.00a.m. to 5.00 p.m. and from 5.00 p.m. to the next morning)</p>						
Date of test	05/10/2005	05/10/2005				
Date pre-soaking started	04/10/2005	04/10/2005				
Time filled to 400mm						
Time water level at 300mm						
Percolation Test Hole No.	3	4				
Fill No.	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)
1			212			147
2						
3						
Average Δt			212	Average Δt		147
Average Δt/4 = [Hole No. 1] <u>53</u> (t ₁)			Average Δt/4 = [Hole No. 1] <u>37</u> (t ₂)			
<p>T-Value = (t₁ + t₂)/2 = _____ (min/25mm)</p>						
<p>Result of Test: T=</p>						
<p>Comments: See last page</p>						

PERCOLATION TEST

Type of Test: T-Test or P-Test

Percolation Test Hole		5	6
Depth from ground surface to top of hole (mm) (A)		400mm	4000mm
Depth from ground surface to base of hole (mm) (B)			
Depth of hole (mm) [B-A]			
Dimensions of hole [length x breadth (mm)]			
Each hole must be pre-soaked twice before the test is carried out (from 10.00a.m. to 5.00 p.m. and from 5.00 p.m. to the next morning)			
Date of test		05/10/2005	05/10/2005
Date pre-soaking started		04/10/2005	04/10/2005
Time filled to 400mm			
Time water level at 300mm			
Percolation Test Hole No.	5	6	
Fill No.	Start Time (at 300mm)	Finish Time (at 200mm)	Δt (min)
1			272
2			
3			
Average Δt		272	Average Δt
Average Δt/4 = [Hole No. 1] <u>68</u> (t ₁)		Average Δt/4 = [Hole No. 1] <u>25</u> (t ₂)	
T-Value = (t₁ + t₂ + t₃ + t₄ + t₅ + t₆)/6 = 45 (min/25mm)			
Result of Test: T= 45			
Comments:			