Appendix to Chapter 10: Soils

Appendix 10.1: Trial Pit Investigations

The data and descriptions in this appendix have informed the cumulative evaluations in the EIA Main Report.

			TRIAL PIT NUMBER: TH-01							
HYDRO-ENVIRONMENTAL SERVICES	PROJECT NI SITE: Upperd CLIENT: Ecc	church Gric	l Conn			LOGGE	ARTED: 2 D BY: D. ACTOR:	EASTING: 172290 NORTHING: 164486 ELEVATION:		
Comments	Comments Sample Number Sample Type Water Strikes		Elevation	Meters Below Ground Surface	Lithology	Forme	ition Description			
					0.00	0-		Gro Topsoil	ound Surface	
					-0.40	-		· ·	vn to grey SILT - SILT/CLAY ge mottling)	
					-0.80	_			orange/brown slightly ith minor sand	
					-2.00	- 1-		some cobbles (w	gravelly sandy CLAY with ret, groundwater seepage nbgl, layer unstable)	
					-3.00	- 2-		Firm, greyish brown, slightly gravelly, sandy CLAY with some cobbles and boulders Bedrock not met End of Hole @ 3mbgl. Total Depth of Trial Pit		
						-				
REMARKS: Suspected old stone land drain with minor inflows intercer 0.7mbgl						ed at			PIT LENGTH: 3m PIT BREADTH: FINAL DEPTH: 3mbgl EXCAVATOR:	
LEGEND V - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test J - None feat									PAGE 1 of 1	
T - No. of threads R - Average length of ribbc Dil - Dilatancy recorded ND - No dilatancy recorde									SCALE As shown	
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				TRIAL PIT NUMBER: TH-02						
HYDRO-ENVIRONMENTAL SERVICES	PROJECT N SITE: Upper CLIENT: Ecc	church Gric	21/01/2016 Broderick James Bradshaw	EASTING: 172280 NORTHING: 164455 ELEVATION:						
Comments		Sample Number Sample Type Water Strikes		Elevation	Meters Below Ground Surface	Lithology	Forma	tion Description		
					0.00	- 0-			ound Surface	
					-0.60	-		Topsoil Firm, grey SILT (wit	th some orange mottling)	
					-0.00			gravelly, sandy C	greyish brown, slightly CLAY with some cobbles	
						1-		Refusal at 2.7m di boulders	ue to dense ground and	
						-				
						2-		End of Hole @ 2.7mbgl.		
					-2.70	_				
						3-		Total D	Depth of Trial Pit	
REMARKS:									PIT LENGTH: 2.7m	
Suspected old stone land drain with minor inflows intercepted at 0.8mbgl								PIT BREADTH:		
								FINAL DEPTH: 2.7mbgl EXCAVATOR:		
LEGEND ∇ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test									PAGE 1 of 1	
V - Vane test T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded									SCALE As shown	
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		TRIAL PIT NUMBER: TH-\$'							
HYDRO-ENVIRONMENTAL SERVICES	PROJECT NI SITE: Upper CLIENT: Ecc	church Gric	d Conn	05/05/2017 Broderick James Bradshaw	EASTING: 172552 NORTHING: 164494 ELEVATION:				
Comments		Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Format	ion Description
					0.00	- 0-			und Surface
					-0.10	_		TOPSOIL	
					-0.40			SILT/CLAY Brown, firm SILT/CI	LAY
				-		CLAY Light grey, very firm to stiff CLAY			
					-0.65	_			ry firm to stiff, slightly n sub-rounded to angular
					-1.40	1-		cobbles	
					1.40	-		End of hole @1.4mbgl	
						-			epth of Trial Pit
REMARKS:		1			1	1		1	PIT LENGTH: 1.4m
Lots of orange mottling in the clay (poor drainage) Dry hole								PIT BREADTH: FINAL DEPTH: 1.4mbgl	
LEGEND ∇ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test T - No. of threads							PAGE 1 of 1		
R - Average length of ribbo Dil - Dilatancy recorded ND - No dilatancy recorded							SCALE As shown		
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				TRIAL PIT NUMBER: TH-\$(
HYDRO-ENVIRONMENTAL SERVICES	PROJECT N SITE: Upper CLIENT: Ecc	church Gric	05/05/2017 Broderick James Bradshaw	EASTING: 172550 NORTHING: 164519 ELEVATION:					
Comments		Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Forma	tion Description
					0.00	- 0-			ound Surface
					-0.10			TOPSOIL	
					-0.40			SILT Dark grey, firm sliç	ghtly sandy SILT
						-		CLAY Orange brown, vo gravelly CLAY	ery firm to stiff slightly
					-1.40	1-			
								Lend of hole @1.4r	nbgl
						-		Total E	Depth of Trial Pit
REMARKS:			•		•	•		-	PIT LENGTH: 1.4m
Lots of orange mottling in the clay (poor drainage) Dry hole							PIT BREADTH:		
								FINAL DEPTH: 1.4mbgl	
LEGEND ∇ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test I - No. of threads									PAGE 1 of 1
T - No. of threads R - Average length of ribbo Dil - Dilatancy recorded ND - No dilatancy recorde	d								SCALE As shown
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		TRIAL PIT NUMBER: TH-05								
HYDRO-ENVIRONMENTAL SERVICES	PROJECT NU SITE: Upperd CLIENT: Eco	church Gric	l Conn			LOGGE	D BY: D.	09/06/2016 Broderick James Bradshaw	EASTING: 172979 NORTHING: 164498 ELEVATION:	
Comments Sample Number Sample Type		Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology		tion Description		
					0.00	0-	und Surface			
					-0.15	-		TOPSOIL SILT/CLAY Firm, orange/brown, slightly sandy SITL/CLAY with some rounded to sub- rounded limestone cobbles		
						2-		Total D	Depth of Trial Pit	
REMARKS:						<u> </u>			PIT LENGTH: 1.6m PIT BREADTH: FINAL DEPTH: 1.6mbgl EXCAVATOR:	
LEGEND ∇ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test I - No. of threads									PAGE 1 of 1	
R - Average length of ribbon Dil - Dilatancy recorded ND - No dilatancy recorded									SCALE As shown	
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			TRIAL PIT NUMBER: TH-06						
	PROJECT N SITE: Upper CLIENT: Ecc	church Grid	d Conn			LOGGE	ARTED: 1 D BY: S. Actor:	EASTING: 194754 NORTHING: 160387 ELEVATION:	
Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Format	ion Description	
					0.00	- 0-			und Surface
								PEATY ORGANIC	SOIL
					-0.30			CLAY Stiff stony grey cla	y
								CLAY Stiff stoney yellow	
			-2.20						
								End of hole @2.2m	ıbgl
								Total D	epth of Trial Pit
REMARKS:									PIT LENGTH: 1.6m
No ground water infiltration End of trial pit within clay stratum							PIT BREADTH:		
1	,								FINAL DEPTH: 2.2mbgl
LEGEND V - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test									PAGE 1 of 1
V - Vane test T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded									SCALE As shown
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