

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 LOG

TRIAL PIT NUMBER: TH-01

PROJECT NUMBER: P1299-2
SITE: Upperchurch Grid Connection
CLIENT: Ecopower Developments Ltd.

DATE STARTED: 21/01/2016
LOGGED BY: D. Broderick
CONTRACTOR: James Bradshaw

EASTING: 172290
NORTHING: 164486
ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.10			Topsoil
				-0.40			Firm, greyish brown to grey SILT - SILT/CLAY (with some orange mottling)
				-0.80			Firm to very firm, orange/brown slightly gravelly CLAY (with minor sand discontinuities)
				-2.00	1		Soft to firm, grey, gravelly sandy CLAY with some cobbles (wet, groundwater seepage below approx 1mbgl, layer unstable)
				-3.00	2		Firm, greyish brown, slightly gravelly, sandy CLAY with some cobbles and boulders
							Bedrock not met
					3		End of Hole @ 3mbgl.
							Total Depth of Trial Pit

REMARKS:

Suspected old stone land drain with minor inflows intercepted at 0.7mbgl

PIT LENGTH: 3m

PIT BREADTH:

FINAL DEPTH: 3mbgl

EXCAVATOR:

LEGEND

∇ - Water strike
D - Disturbed sample
B - Bulk disturbed sample
W - Water sample
V - Vane test
T - No. of threads
R - Average length of ribbons
Dil - Dilatancy recorded
ND - No dilatancy recorded

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SCALE As shown



TRIAL PIT LOG

TRIAL PIT NUMBER: TH-02

PROJECT NUMBER: P1299-2
SITE: Upperchurch Grid Connection
CLIENT: Ecopower Developments Ltd.

DATE STARTED: 21/01/2016
LOGGED BY: D. Broderick
CONTRACTOR: James Bradshaw

EASTING: 172280
NORTHING: 164455
ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.10			Topsoil
							Firm, grey SILT (with some orange mottling)
				-0.60			Firm to very firm, greyish brown, slightly gravelly, sandy CLAY with some cobbles
					1		Refusal at 2.7m due to dense ground and boulders
					2		
				-2.70			End of Hole @ 2.7mbgl.
					3		Total Depth of Trial Pit

REMARKS:

Suspected old stone land drain with minor inflows intercepted at 0.8mbgl

PIT LENGTH: 2.7m
PIT BREADTH:
FINAL DEPTH: 2.7mbgl
EXCAVATOR:

LEGEND
▽ - Water strike
D - Disturbed sample
B - Bulk disturbed sample
W - Water sample
V - Vane test
T - No. of threads
R - Average length of ribbons
Dil - Dilatancy recorded
ND - No dilatancy recorded

PAGE 1 of 1
SCALE As shown



TRIAL PIT LOG

TRIAL PIT NUMBER: TH-5'

PROJECT NUMBER: P1299-2
SITE: Upperchurch Grid Connection
CLIENT: Ecopower Developments Ltd.

DATE STARTED: 05/05/2017
LOGGED BY: D. Broderick
CONTRACTOR: James Bradshaw

EASTING: 172552
NORTHING: 164494
ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.10			TOPSOIL
				-0.40			SILT/CLAY Brown, firm SILT/CLAY
				-0.65			CLAY Light grey, very firm to stiff CLAY
				-1.40	1		CLAY Greyish brown, very firm to stiff, slightly gravelly CLAY with sub-rounded to angular cobbles
							End of hole @ 1.4mbgl Total Depth of Trial Pit

REMARKS: Lots of orange mottling in the clay (poor drainage) Dry hole						PIT LENGTH: 1.4m PIT BREADTH: FINAL DEPTH: 1.4mbgl EXCAVATOR:
LEGEND ▽ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded						PAGE 1 of 1
						SCALE As shown




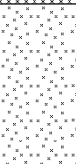
TRIAL PIT LOG

TRIAL PIT NUMBER: TH-\$(

PROJECT NUMBER: P1299-2
SITE: Upperchurch Grid Connection
CLIENT: Ecopower Developments Ltd.

DATE STARTED: 05/05/2017
LOGGED BY: D. Broderick
CONTRACTOR: James Bradshaw

EASTING: 172550
NORTHING: 164519
ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.10			TOPSOIL
				-0.40			SILT Dark grey, firm slightly sandy SILT
							-1.40
						Total Depth of Trial Pit	

REMARKS: Lots of orange mottling in the clay (poor drainage) Dry hole					PIT LENGTH: 1.4m PIT BREADTH: FINAL DEPTH: 1.4mbgl EXCAVATOR:	
LEGEND ▽ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded					PAGE 1 of 1	
					SCALE As shown	



TRIAL PIT LOG

TRIAL PIT NUMBER: TH-05

PROJECT NUMBER: P1299-2

SITE: Upperchurch Grid Connection

CLIENT: Ecopower Developments Ltd.

DATE STARTED: 09/06/2016

LOGGED BY: D. Broderick

CONTRACTOR: James Bradshaw

EASTING: 172979

NORTHING: 164498

ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.15			TOPSOIL
							SILT/CLAY Firm, orange/brown, slightly sandy SILT/CLAY with some rounded to sub- rounded limestone cobbles
				-1.60			Total Depth of Trial Pit
					2		

REMARKS:						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 T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded					PAGE 1 of 1	
					SCALE As shown	




TRIAL PIT LOG

TRIAL PIT NUMBER: TH-06

PROJECT NUMBER: P1299-2
SITE: Upperchurch Grid Connection
CLIENT: Ecopower Developments Ltd.

DATE STARTED: 12/04/2012
LOGGED BY: S. Doyle
CONTRACTOR: William McLoughlin

EASTING: 194754
NORTHING: 160387
ELEVATION:

Comments	Sample Number	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
				0.00	0		Ground Surface
				-0.30			PEATY ORGANIC SOIL
				-1.50			CLAY Stiff stony grey clay
				-2.20			CLAY Stiff stoney yellow clay stratum
							End of hole @2.2mbgl Total Depth of Trial Pit

REMARKS: No ground water infiltration End of trial pit within clay stratum					PIT LENGTH: 1.6m PIT BREADTH: FINAL DEPTH: 2.2mbgl EXCAVATOR:
LEGEND ▽ - Water strike D - Disturbed sample B - Bulk disturbed sample W - Water sample V - Vane test T - No. of threads R - Average length of ribbons Dil - Dilatancy recorded ND - No dilatancy recorded					PAGE 1 of 1
					SCALE As shown