

Location: E 315952.5
N 956337.6

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result									Symbol	Depth	
29/7 2023	0.00	B, D						90.19		Brown sandy TOPSOIL with rootlets. Sand is fine to coarse	[Hatched Pattern]				
									89.79	0.40					Mottled brown and grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of siltstone and mudstone
29/07	0.50	B, D							 below 1.20: becoming sandier	[Vertical Line Pattern]	Dry			
	1.00	B, D													
	1.20	UT													
	1.65	B, D													
			TCR	SCR	RQD	FI									
			1.70												
30/07								88.54	1.65		[Horizontal Line Pattern]				
								88.39	1.80	Soft grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of siltstone and mudstone					
								88.34	1.85	Grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and mudstone					
										ROCK					
			2.15												
			2.75												
			3.40												
		4.25													
		5.75													
		7.05													
		8.55													

Remarks:

Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush. The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 10.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.70	1.70
145	14.90	14.90

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.70	14.90
Chk & App	Status	PRELIM												



Fig No:
B
Sheet 1 of 2
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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH01

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 1.70m
Sonic Coring to 14.90m

Location: E 315952.5
N 956337.6

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests			Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result								Symbol	Depth
			10.05				90.19						
			11.60										
			12.10										
			13.40										
31/07						14.90			END OF BOREHOLE				14.90

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush. The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 10.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.70	1.70
145	14.90	14.90

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.70	14.90
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:22 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: E 316124.1
N 956443.3

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Style: BOREHOLE NEW File: P:\GINT\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:25 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill			
	Depth	Type	Depth	Result									Symbol	Depth		
26/7 2023	0.00	B, D					1.20	91.02		Brown slightly gravelly sandy TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite						
	0.50	B, D						90.72	0.30	Light brown slightly gravelly very silty fine to coarse SAND with pockets of firm grey and brown silt. Gravel is fine and medium subangular and subrounded of various lithologies including sandstone, siltstone and granite				0.50		
	1.00	B, D						89.92	1.10	Weathered SANDSTONE recovered as orange brown very gravelly very silty fine to coarse sand with pockets of friable mottled grey, brown and orange brown sandy silt. Gravel is fine to coarse angular of weathered sandstone and siltstone				1.10		
	1.20	B, D, D	1.20	SPT>50 6.12 /16.15.19 (220)				89.32	1.70							
				1.70	TCR	SCR		RQD	FI				Medium strong and strong grey sandy SILTSTONE recovered as non-intact. Moderately weathered evident as slight loss of strength, broken recovery and frequent penetrative orangeish brown ironstaining (up to 10mm). Evidence of low angle bedding fractures and high angle jointing throughout			
										87.52		3.50	Strong, locally medium strong locally thinly laminated grey slightly sandy SILTSTONE with frequent 70°-90° white calcite and quartz veins (up to 3mm thick), frequently containing pyrite crystals (<1mm across). Slightly weathered evident as frequent surface, occasionally penetrative orangeish brown ironstaining (up to 5mm), locally non-intact and slight loss of strength. Three fracture sets; No.1: 0°-10° extremely close to closely spaced, rarely medium spaced planar and slightly undulating, slightly rough bedding fractures with occasional surface orangeish brown ironstaining. No.2: 70°-90° close and medium spaced undulating and rough joints with frequent penetrative orangeish brown ironstaining (up to 5mm). No.3: 10°-45° close and medium spaced undulating and rough joints with occasional penetrative orangeish brown ironstaining (up to 5mm)			
				3.50	100	80		2								
										...between 6.60m and 7.40m: with very frequent 70°-90° white and pink calcite and K-feldspar veins (up to 20mm thick) containing abundant pyrite crystals (<1mm across) and elongate silvery crystals of possible lead (up to 5mm long)						
								82.32	8.70	Strong thinly laminated grey slightly sandy SILTSTONE with frequent 60°-90° white calcite veins, locally running parallel (up to 2mm thick) and frequently containing pyrite crystals (up to 2mm across). Slightly weathered evident as occasional surface orangeish brown ironstaining and locally non-intact. Three fracture sets; No.1: 0°-10° close and medium spaced, locally extremely closely spaced slightly undulating slightly rough bedding fractures. No.2: 60°-90° closely spaced, locally extremely closely spaced and running parallel undulating and planar, rough joints with occasional surface orangeish brown ironstaining						
			8.70	100	87	0										

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 14.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.70	1.70
145	11.60	11.60

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.70	14.60
Chk & App	Status PRELIM													

Fig No:
B
Sheet 1 of 2
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission
 Engineer: Jacobs UK Ltd

BH02

Inspection Pit to 1.20m
 Sonic Boring to 1.70m
 Sonic Coring to 14.60m

Location: E 316124.1
 N 956443.3

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
 LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
			8.70	>20										
				8										
				>20										
				12										
				>20										
				NI			11.60					1.45m		
27/07				>20										
				20								1.70m		
				>20										
				16										
				>20										
				15										
				NI										
				>20										
				NI			76.42	14.60						14.00
				>20										14.60
END OF BOREHOLE														

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 14.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.70	1.70
145	11.60	11.60

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.70	14.60
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 2 of 2
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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH03

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 1.70m
Sonic Coring to 15.00m

Location: E 316282.2
N 956556.7

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result									Symbol	Depth	
31/7 2023	0.10	B, D						89.65		Spongy light brown sandy clayey pseudofibrous PEAT. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of various lithologies including siltstone, sandstone and mudstone (H3, B1)					
	0.40	B, D						89.25	0.40	Light brown gravelly clayey fine to coarse SAND. Gravel is fine to coarse subangular to rounded of various lithologies including siltstone, sandstone and mudstone				0.50	
	0.80	B, D						88.85	0.80	Brownish grey slightly gravelly sandy CLAY with rootlets and sandy pockets. Sand is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone					
	1.00	B, D						88.45	1.20	...below 1.00m: becoming mottled brown, grey and orange					
	1.20	B, D						88.25	1.40	Brownish grey slightly gravelly sandy CLAY. Sand is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Faint organic odour					
	1.40	B	1.50	SP	3.18	21.29	100		87.95	1.70	Weathered SILTSTONE recovered as grey very silty fine to coarse sand and fine to coarse angular gravel				
	1.50	D	1.70	100	0	0	NI		87.55	2.10	Highly weathered grey and orangish grey SILTSTONE. Recovered as non intact clay bound angular gravel. local evidence of low angle bedding fractures and high angle jointing non intact as fractures cross				
			2.10	100	100	31	17				strong locally medium strong grey locally orange grey SILTSTONE with frequent very thin and thin dark grey thinly laminated siltstone with local turndated bedding, rare 70-90° white calcite veins under 1mm thick, slightly weathered locally moderately weathered evident as slight loss of strength zones of high fracture density and penetrative orangish brown iron staining up to 10mm. three fracture sets no.1 0-10° very close and closely spaced locally extremely closely spaced planar and slightly undulating slightly rough bedding fractures with penetrative orangish brown iron staining up to 10mm no.2 70-90° close and medium spaced planar and stepped slightly rough joints with penetrative orange brown iron staining up to 3mm no.3 close and medium spaced locally extremely spaced slightly undulating rough joints with penetrative orange brown iron staining up to 5mm. ...between 3.70m and 3.80m: band of very silty fine sand				
			3.00	100	100	41	>20								
			4.50	100	100	83	3		85.15	4.50	strong grey SILTSTONE with frequent very thin and thin bands of dark grey thinly laminated siltstone with local evidence of turbidation due to dewatering, fresh locally slightly weathered evident as surface orangeish brown staining above 6.00m locally penetrative orange brown iron staining up to 5mm. three fracture sets no.1 0-10 close and medium spaced locally extremely and very closely spaced planar and slightly undulating slightly rough bedding fractures with occasional orange brown surface iron staining below 12.00m frequent medium sized bands of dark grey thinly laminated siltstone with evidence of turbidation no.2 70-90° widely and very widely spaced below 12.00m locally very closely spaced and running parallel planar and slightly rough joints with occasional surface orange brown iron staining no.3 10-45° medium and widely spaced locally very close and closely spaced slightly undulating slightly rough joints with occasional orange brown surface iron staining, below 12.00m very frequent planar and occasionally undulating and running parallel white calcite veins up to 5mm thick, between 11.70-12.00m 80° planar micro fault and filled with calcite showing displacement of up to 5mm, between 11.10-11.30m stepped veins, between 12.35-12.45m apparent faulting/displacement of calcite viens				5.00
			6.00	100	100	77	6								
			7.50	100	100	93	7								
		9.00	100	100	83	6									

Remarks:
Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD140.
A 50mm diameter perforated standpipe was installed to a depth of 14.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.50	1.50
145	15.00	15.00

Driller SW	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	15.00
Chk & App	Status PRELIM													

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Fig No: **B**
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Scale 1:50

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Location: **E 316202.0**
N 956607.0

Orientation: **Vertical**

Equipment: **Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush**

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result									Symbol	Depth	
27/7 2023	0.15	B, D					88.61	0.15	# PEAT		1.60m 1.50m	0.30	0.30		
	0.50	B, D					88.46	0.30	Mottled brown, grey and orange brown slightly gravelly slightly sandy CLAY with roots, large pockets of dark brown very clayey plastic pseudo-fibrous peat and small pockets of blueish grey slightly sandy silt. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and granite						
	1.00	B, D					87.56	1.20	Brownish grey slightly gravelly sandy CLAY with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and granite						
	1.20	B, D, D	1.20	SPT=6 2.2/1.1.2.2											
	2.00	B, D					85.76	3.00	Soft, locally firm grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and mudstone						
	2.70	B, D, D	2.70	SPT>50 9.16 (110)/50 (25)											
	3.00			TCR	SCR	RQD								FI	
				100	84	30	NI	15						Strong locally thinly laminated grey locally sandy SILTSTONE. Slightly weathered with reduced fracture spacing, 3 fracture sets. No 1 is 0-5°, very close to close spacing, planar, rough and smooth, bedding fractures. No 2 is 20-30°, very close to close spacing, stepped and planar, smooth, low angle joints. Set 3 is close spacing, 70-80°, undulating and planar, rough, joints.	
				100	100	73	8		8.451					4.25	Strong locally thinly laminated grey locally sandy SILTSTONE with local disturbed beds due to dewatering and occasional 70-90° white calcite veins 2mm thick. Locally slightly weathered with slight reduced fracture spacing and local surface and penetrative iron staining 3mm. No 1 is 0-5°, medium locally close spacing, planar, rough and smooth, bedding fractures. No 2 is 20-30°, medium locally close spacing, planar, smooth, low angle joints. No. 3 is medium spacing, 70-80°, planar, rough, joints.
				100	100	84	>20	8							
				100	100	93	6								
				100	100	74	8								
						4									

Remarks:

- # Description based on Driller's log.
- An inspection pit was excavated by hand to a depth of 1.20m to clear services.
- No ground-water observations are recorded due to the use of water flush.
- The Penetration Tests were carried out using Trip Hammer RD48.
- A 50mm diameter perforated standpipe was installed to a depth of 14.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	3.00	3.00
145	15.35	15.35

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush				Returns	Type	From (m)	To (m)	RAEBURN	Fig No: B Sheet 1 of 2 Scale 1:50
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	From (m)	To (m)								
											100	Water	1.20	15.35						
Chk & App	Status PRELIM																			

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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH04

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 3.00m
Sonic Coring to 5.75m

Location: E 316202.0
N 956607.0

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
			8.70											
			10.20	100	100	75								
			11.30	100	100	82								
			12.65	100	100	92			below 12.80m: becoming consistently thinly laminated				
			14.15	100	100	61								
28/07							15.35	73.41	15.35	END OF BOREHOLE		0.50m		15.35

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of 14.00m.

Hole Diam.	To Depth	
	Boring	Casing
175	3.00	3.00
145	15.35	15.35

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	15.35
Chk & App	Status PRELIM													



Fig No:
B
Sheet 2 of 2
Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:28 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: **E 316103.6**
N 956534.9

Orientation: **Vertical**

Equipment: **Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush**

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill						
	Depth	Type	Depth	Result	TCR	SCR							RQD	FI	Symbol	Depth			
26/7 2023	0.00	B, D						88.49		Firm dark brown slightly sandy slightly clayey spongy fibrous PEAT with roots and rootlets		1.70m		0.30					
	0.20	B, D						88.29	0.20	Brownish grey sandy SILT with pockets of firm dark brown fibrous peat. Sand is fine					0.30				
	1.00	B, D						87.49	1.00						1.00				
	1.20	B, D, D, D	1.20	SPT=6 0.0/1.1.2.2				87.29	1.20	Mottled grey, orange brown and reddish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone. Faint organic odour					1.20				
	1.70	B, D						86.79	1.70	Very soft grey slightly gravelly sandy SILT with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite									
	2.10	B, D						86.39	2.10	Soft to firm brownish grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Locally passing to slightly gravelly slightly sandy silt									
	2.70	B, U(145)						85.39	3.10	Firm to stiff, becoming very stiff greyish brown slightly gravelly slightly sandy CLAY with cobbles. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are subangular of sandstone									
	3.10	B, D						85.19	3.30	Grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Locally passing to very silty sand									
	3.30	B, D								Dark brownish grey slightly gravelly sandy SILT with shell fragments. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite									
	3.80	B, D																	
	4.20	B, D, D								Sandstone BOULDER									
	4.80	B, D																	
	5.05	B, D								Greyish brown slightly sandy very clayey fine to coarse angular to subrounded GRAVEL of sandstone and siltstone with cobbles. Sand is fine to coarse. Cobbles are subangular of sandstone									
	5.40	B, D								Greyish brown slightly gravelly slightly sandy SILT with cobbles. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone. Cobbles are subangular of sandstone									
	5.70	U(50)a	5.70						82.79	5.70					Greyish brown slightly sandy very silty fine to coarse angular to subrounded GRAVEL of sandstone and siltstone with cobbles. Sand is fine to coarse. Cobbles are subangular of sandstone				
	5.80	D	5.70							Medium strong and strong locally thinly laminated grey and orangeish brown slightly sandy SILTSTONE. Moderately weathered evident as frequent surface and penetrative orangeish brown ironstaining on fracture surfaces (up to 10mm), high fracture density, frequently non-intact and rare silt infill on fracture surfaces (up to 5mm thick). Three fracture sets; 0°-10° extremely close and very closely spaced, locally closely spaced planar and slightly undulating, slightly rough bedding fractures with frequent surface and penetrative ironstaining (up to 10mm). No.2: 70°-90° close and medium spaced, locally extremely closely spaced, undulating and slightly rough joints with frequent orangeish brown penetrative ironstaining (up to 10mm); Frequently non-intact where fractures cross									
	26/07			8.30	100	100	30			80.19					8.30				
			9.40	100	98	68			79.09	9.40									

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of 3.10m.

Hole Diam.	To Depth	
	Boring	Casing
175	5.70	5.70
145	9.40	15.00
145	15.00	

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
GM											100	Water	1.20	15.00
Chk & App	Status	PRELIM												

Fig No:
B
Sheet 1 of 2
Scale 1:50

Location: **E 316016.4**
N 956486.9

Orientation: **Vertical**

Equipment: **Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush**

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result									Symbol	Depth	
27/7 2023	0.00	B, D						87.85		Brown sandy silty TOPSOIL. Sand is fine to coarse					
	0.50	B, D						87.45	0.40	Brownish grey gravelly very silty fine to coarse SAND with large pockets of soft to firm sandy silt. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including weathered siltstone, sandstone and granite			0.50		
	1.00	B, D						86.95	0.90	Soft brownish grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of various lithologies including siltstone, sandstone and granite			1.00		
	1.20	B, D, D	1.20	SPT=3	0.0	0.0	1.2						1.20		
	2.00	B, B, D						85.95	1.90	Grey very silty fine to coarse SAND and fine to coarse angular to subrounded GRAVEL of various lithologies including siltstone, sandstone and mudstone with pockets of brownish grey clay					
				TCR	SCR	RQD	FI	85.05	2.80	Strong, locally medium strong grey slightly sandy SILTSTONE with local thin bands of dark grey thinly laminated siltstone, frequent 10°-90° curved and planar white calcite veins (up to 5mm thick), locally running parallel. Slightly weathered evident as local high fracture density and frequent penetrative orangeish brown ironstaining on fractures (up to 40mm). Bedding is 0°-15°. Three fracture sets; No.1: 0°-15° very close and closely spaced, locally extremely closely spaced and rarely medium spaced, planar and slightly undulating, slightly rough bedding fractures with penetrative orangeish brown ironstaining (up to 40mm). No.2: 70°-90° medium spaced, locally closely spaced undulating and slightly rough joints with penetrative staining (up to 5mm). No.3: 10°-40° medium spaced, locally closely spaced undulating and slightly rough joints with penetrative staining (up to 10mm)					
			2.80	100	99	52	>20								
							8								
							>20								
							16								
							6								
							>20								
						NI									
						8									
						>20									
						9									
						NI									
						11									
						>20									
						6									
						>20									
						6									
						17									
						78.15		9.70							
						9.70	100	100	58						
						3				Strong thinly interlaminated dark grey and grey SILTSTONE with occasional, locally frequent 70°-90°, rarely 20°-40° trending planar					

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 2.80m.

Hole Diam.	To Depth	
	Boring	Casing
175	2.80	2.80
145	14.80	14.80

Driller SM	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.70	14.80
Chk & App	Status PRELIM													

Fig No:
B
Sheet 1 of 2
Scale 1:50

Location: E 315909.3
N 956503.2

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
28/7 2023	0.00	B, D						85.52		Dark brown slightly gravelly slightly sandy very clayey peaty TOPSOIL with roots and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and granite				
	0.50	B, D					85.12	0.40	Brownish grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of various lithologies including siltstone, sandstone and granite	0.50				
	1.00	B, D					84.72	0.80	Soft brownish grey slightly gavelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone	1.30				
	1.20	B, D, D	1.20	SPT>50 TCR	0.4 SCH	12 RQD	18 FI	84.02	1.50	Medium strong and strong, locally weak grey SILTSTONE with occasional very thin bands of dark grey thinly laminated siltstone and 10°-90° planar white calcite veins (up to 1m thick). Moderately weathered evident as loss of strength, high fracture density and penetrative orangeish brown ironstaining (up to 10mm), locally with silt infilling on fracture surfaces (up to 20mm thick). Three fracture sets; No.1: 0°-10° extremely close to closely spaced planar and smooth bedding fractures with frequent surface and penetrative orangeish brown ironstaining (up to 10mm). No.2: 70°-90° close and medium spaced, planar and rough joints. No.3: 10°-25° close and medium spaced, locally very closely spaced curved and slightly undulating, slightly rough joints with frequent penetrative ironstaining (up to 10mm)				1.80
			1.50	100	70	18	NI							
							>20							
							NI							
							>20							
			2.75	100	100	25	NI							
							>20							
			3.30	100	100	79	NI							
							>20							
		4.25	100	100	75	9								
						11								
		5.80	100	94	36	>20								
						NI								
						>20								
						NI								
		7.30	100	99	41	6								
						>20								
						3								
						>20								
						NI								
						16								
						>20								
						16								
						4								
		8.65	100	100	54	>20								
						16								
						4								

Remarks:												Hole Diam.		To Depth	
# Description based on Driller's log.												175	1.50	1.50	
An inspection pit was excavated by hand to a depth of 1.20m to clear services.												145	15.10	15.10	
No ground-water observations are recorded due to the use of water flush.															
The Penetration Tests were carried out using Trip Hammer RD54.															
A 50mm diameter perforated standpipe was installed to a depth of 14.00m.															

Driller SMcL	Originator	Ground-water				Water Added		Chiselling			Flush				RAEBURN	Fig No: B Sheet 1 of 2 Scale 1:50
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)		
Chk & App	Status PRELIM	1.30									100	Water	1.50	15.10		

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Location: E 316158.9
N 956659.3

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill							
	Depth	Type	Depth	Result										Depth						
28/7 2023	0.10	B, D	1.20	SPT=2 2.1/0.1/0.1				4.25	87.78		Dark brown clayey plastic pseudo-fibrous, locally fibrous PEAT with roots, rootlets and wood remnants (H3, B2)		1.70m							
	0.50	B, D		87.13	0.65	Brownish grey slightly gravelly sandy CLAY with pockets of dark brown plastic pseudo-fibrous peat. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and granite	0.50													
	1.00	B, D		86.58	1.20	Soft, locally firm grey slightly gavelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of various lithologies including siltstone, sandstone and mudstone				1.90										
	1.20	B, D				85.88	1.90		Medium strong and strong, locally moderately weak grey SILTSTONE with frequent very thin bands of dark grey thinly laminated siltstone and local bedding disturbance due to dewatering. Slightly weathered evident as high fracture density, loss of strength and occasional penetrative orangeish brown ironstaining on fracture surfaces (up to 3mm). Three fracture sets; No.1: 0°-10° very close and closely spaced, locally extremely closely spaced and rarely medium spaced, planar and slightly undulating, slightly rough bedding fractures with occasional orangeish brown penetrative ironstaining (up to 3mm). No.2: 70°-90° medium and widely spaced, undulating and slightly rough joints with occasional penetrative ironstaining (up to 3mm). No.3: 10°-25° medium and widely spaced, slightly undulating and slightly rough joints											
	28/07	1.90			TCR	SCR	RQD		FI	11	83.53				4.25	Strong grey locally slightly sandy SILTSTONE with frequent very thin and thin bands of dark grey thinly laminated siltstone and occasional very thin light grey disturbed sandier bands. Fresh. Three fracture sets; No.1: 0°-10° close and medium spaced, locally extremely and very closely spaced planar and slightly undulating, slightly rough bedding fractures. No.2: 10°-45° medium and widely spaced, locally closely spaced and rarely extremely closely spaced, undulating and slightly rough joints. No.3: 70°-90° very widely spaced slightly undulating and slightly rough joints		1.70m		
		2.75			100	96	27		NI	>20										8
		4.25			100	100	68		11	2										
		5.65			100	100	90		3	6										
		7.10			100	97	91		3	0										
		8.55			100	100	97		NI/20	2										8

Remarks:												Hole Diam.		To Depth			
# Description based on Driller's log. An inspection pit was excavated by hand to a depth of 1.20m to clear services. No ground-water observations are recorded due to the use of water flush. The Penetration Tests were carried out using Trip Hammer RD48.												175	145	1.90	15.40	1.90	15.40

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush				RAEBURN	Fig No: B Sheet 1 of 2 Scale 1:50
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)		
Chk & App	Status PRELIM										100	Water	1.20	15.40		

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Location: **E 316284.0**
N 956746.5

Orientation: **Vertical**

Equipment: **Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush**

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill			
	Depth	Type	Depth	Result									Symbol	Depth		
29/7 2023	0.10	B, D						86.79		Spongy brown sandy pseudo-fibrous PEAT. Sand is fine (H3,B1)						
	0.50	B, D						86.49	0.30	Mottled brown, orange brown and grey slightly gravelly clayey fine to coarse SAND. Gravel is fine to coarse subangular to rounded of various lithologies including siltstone, sandstone and mudstone				0.50		
	1.00	B, D						85.54	1.25							
	1.20	D	1.20	TCR 100	SCR 63	RQD 28	FI 22 (85)									
								85.19	1.60	medium strong locally moderately weak grey and orangeish grey locally thinly laminated SILTSTONE. Moderately weathered evident as significant loss of strength, locally non-intact, high fracture density and frequent penetrative orange-brown iron staining up to 5mm on fracture surfaces. Three fracture sets; No.1: 0°-10° extremely and very closely spaced planar and slightly rough bedding fractures with frequent orange-brown penetrative ironstaining up to 5mm. No.2: 70°-90° very closely spaced planar slightly undulating and slightly rough joints with orange-brown penetrative ironstaining up to 2mm. No.3: 5°-30° very close and closely spaced slightly undulating and slightly rough joints with orange-brown penetrative ironstaining up to 5mm				2.20		
								83.99	2.80							
			1.60	100	100	58										8
			2.45	100	100	29										17
			2.80	100	100	53										10
								3.85								
			3.85	100	100	24										8
																>20
																9
			5.25	100	100	91										2
							8									
							5									
		6.75	100	100	95			0								
								6								
							10.00									
		9.80	100	100	74			0								

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of 10.00m.

Driller	Originator	Ground-water				Water Added		Chiselling			Flush				Fig No:
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)	
GM											100	Water	1.20	15.15	B Sheet 1 of 2 Scale 1:50
Chk & App	Status PRELIM														

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH09

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 1.25m
Sonic Coring to 15.15m

Location: E 316284.0
N 956746.5

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
			9.80				10							
			11.25	100	100	98	2							
			12.80	100	100	43	5							
							12							
			14.00	100	100	88	3							
30/07							15.15	71.64	15.15	END OF BOREHOLE		0.55m		15.15

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of 10.00m.

Hole Diam.	To Depth	
	Boring	Casing
145	15.15	15.15

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	15.15
Chk & App	Status PRELIM													



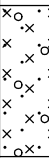
Fig No:
B
 Sheet 2 of 2
 Scale 1:50

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Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
31/7 2023	0.10	B, D							0.20	Spongy dark brown slightly gravelly sandy pseudofibrous PEAT. Sand is fine to coarse. Gravel is fine and medium subrounded and rounded of siltstone and mudstone				0.50
	0.50	B, D								Soft brownish grey slightly gravelly sandy laminated SILT. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of various including siltstone, sandstone and mudstone				1.00
	1.00	B, D							1.20					
	1.20	U												
				TCR	SCR	RQD	FI							
			1.75	100	72	0	NI							
							>20							
							NI							
							>20							
			2.40	100	100	43	13			2.40	moderately strong and strong locally moderately weak grey SILTSTONE with frequent very thin bands of dark grey thinly laminated siltstone. moderately weathered evident as loss of strength high fracture density and surface orange brown iron staining and occasional calcite infill on joints. three fracture sets no.1 10-30° very close and closely spaced locally extremely closely spaced slightly undulating and rough joints with frequent surface orange brown iron staining no.2 0-10° very close and close locally extremely closely spaced planar and slightly undulating slightly rough bedding fractures with occasional orange brown iron staining no.3 very closely and close locally extremely closely spaced slightly undulating slightly rough joints with surface orange brown iron staining.			2.50
							11				strong to very strong grey SILTSTONE with frequent very thin and thin bands of dark grey thinly laminated siltstone with local evidence of turbidation due to dewatering between 6.80-8.30m very frequent medium bands of thinly laminated dark grey siltstone. fresh. three fracture sets no.1 0-10° close and medium spaced locally very closely spaced planar and slightly undulating smooth and slightly rough bedding fractures no.2 70-90° wide and very wide spaced locally closely spaced planar and locally slightly undulating slightly rough joints no.3 5-50° wide and very widely spaced locally close and medium spaced planar and slightly undulating slightly rough joints.			
			3.90	100	97	54	17							
							NI							
						6								
		5.35	100	100	86	4								
		6.80	100	100	51	8								
						2								
		8.30	100	100	90	5								
						0								
		9.75	100	100	0	10								

Remarks:

Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD48.
A 50mm diameter perforated standpipe was installed to a depth of ?m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.75	1.75
145	10.05	10.05

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	10.05
Chk & App	Status PRELIM													

Fig No:
B
Sheet 1 of 2
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH10

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 1.75m
Sonic Coring to 10.05m

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests		Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result							Symbol	Depth
34/07					10.05		10.05	END OF BOREHOLE		2.40m		10.05

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of ?m.

Hole Diam.	To Depth	
	Boring	Casing
175	1.75	1.75
145	10.05	10.05

Driller GM	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	10.05
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission

Engineer: Jacobs UK Ltd

Contract No: 26470

BH12

Inspection Pit to
Sonic Boring to
Sonic Coring to

1.20m
1.50m
10.25m

Location: E 315940.6
N 956608.9

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill
	Depth	Type	Depth	Result									
31/7 2023	0.00	B, D						85.73		Dark brown sandy TOPSOIL with rootlets . Sand is find to coarse			
	0.50	B, D						85.38	0.35	Grey slightly gravelly to coarse SAND with pockets of pseudofibrous. Gravel is fine to coarse subangular to rounded of siltstone and mudstone			0.40
	1.00	B, D						84.88	0.85	Brownish grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of siltstone, sandstone and mudstone			
	1.20	D	1.20	SPT>50 0.1 / 0.12.38 (220)					84.33		1.40		
	31/07												
				1.50									
				2.80									
				4.30									
			5.80										
			7.25										
			8.75										

Remarks:
Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
175	1.50	1.50
145	10.25	10.25

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.50	10.25
Chk & App	Status	PRELIM												



Fig No:
B
Sheet 1 of 2
Scale 1:50

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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH12

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Boring to 1.50m
Sonic Coring to 10.25m

Location: E 315940.6
N 956608.9

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
01/08			8.75				10.25					0.45m		10.25
----- END OF BOREHOLE -----														

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
175	1.50	1.50
145	10.25	10.25

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.50	10.25
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

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Location: E 315725.2
N 956570.8

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill					
	Depth	Type	Depth	Result									Symbol	Depth				
2/8 2023	0.00	B, D						81.93		Dark brown spongy sandy pseudofibrous PEAT. Sand is fine to coarse (H3, B1)								
	0.50	B, D						81.53	0.40	Mottled grey and brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of siltstone, sandstone and mudstone								
	1.00	B, D						80.93	1.00	Mottled grey and brown slightly gravelly sandy SILT with pockets of brownish grey clay. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of siltstone, sandstone and mudstone								
	1.20	B UT(27)a						80.73	1.20									
	1.45	B, D	1.45						79.73	2.20					Brownish grey slightly gravelly sandy CLAY with cobbles. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of mudstone and siltstone. Cobbles are subangular of siltstone			
															# FLAGSTONE			

Remarks:
Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	2.50	2.50
145	10.05	10.05

Driller SMcL	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
		1.20	1.20	20.00							100	Water	1.45	2.50
											100	Water	2.50	10.05

Fig No:
B
Sheet 1 of 2
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH13

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Coring to 2.50m
Sonic Coring to 10.05m

Location: E 315725.2
N 956570.8

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests		Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result							Symbol	Depth
33/08					10.05	81.93		END OF BOREHOLE		0.00m		10.05

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	2.50	2.50
145	10.05	10.05

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.45	2.50
Chk & App	Status										100	Water	2.50	10.05



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:40 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:41 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill Depth	
	Depth	Type	Depth	Result										
2/8 2023	0.40	B, D					1.20		0.40	# ROCK FILL			0.40	
	0.70	B, D							0.70	Brown gravelly sandy peaty TOPSOIL with pockets of brown spongy pseudofibrous peat and rootlets (H4, B1). Sand is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Cobbles are angular of siltstone				
	1.00	B, D							1.20	Brownish grey slightly gravelly sandy CLAY with rootlets and sandy pockets. Sand is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone				
			1.20	TCR	SCR	RQD		FI		1.20	below 1.00m: becoming mottled brown, grey and orange			
			1.20	SPT=42		0.2		1.5, 16, 20						
			2.75											
			4.30											
			5.70											
			7.25											
			8.65											

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	10.20	10.20

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.20	10.20
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 1 of 2
 Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH14

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Coring to 10.20m

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
02/08			8.65				10.20			END OF BOREHOLE		1.10m	✓	10.20

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	10.20	10.20

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.20	10.20
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission

Engineer: Jacobs UK Ltd

Contract No: 26470

BH15

Inspection Pit to 0.90m
Sonic Coring to 10.00m

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result										Symbol
1/8 2023	0.10	B, D							0.30	Dark brown very sandy TOPSOIL with rootlets and pockets of Spongy pseudofibrous peat. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of various including siltstone, sandstone and mudstone				
	0.50	B, D						0.90	Orange brown and grey gravelly silty fine to coarse SAND. Gravel is fine to coarse subangular to rounded of various lithologies including sandstone, mudstone and siltstone					
			TCR	SCR	RQD	FI								
			0.90											
			2.40											
			3.85											
			5.30											
			5.35											
			6.85											
									10.00					

01/08
Remarks: # Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 0.90m to clear services. Exemption number 45/2023.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD48.
A 50mm diameter perforated standpipe was installed to a depth of ?m.

END OF BOREHOLE

Hole Diam.	To Depth	
	Boring	Casing
145	10.00	10.00

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
DJ											100	Water	0.90	10.00
Chk & App	Status	PRELIM												



Fig No:
B
Sheet 1 of 2
Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:42 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH15

Engineer: Jacobs UK Ltd

Inspection Pit to 0.90m
Sonic Coring to 10.00m

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests		Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result							Symbol	Depth
			9.90									

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 0.90m to clear services. Exemption number 45/2023.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.
 A 50mm diameter perforated standpipe was installed to a depth of ?m.

Hole Diam.	To Depth	
	Boring	Casing
145	10.00	10.00

Driller DJ	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	0.90	10.00
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 2 of 2
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:42 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission

Engineer: Jacobs UK Ltd

Contract No: 26470

BH16

Inspection Pit to Sonic Coring to 1.20m
6.70m

Location: E 315957.3
N 956824.2

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result										Symbol	Depth
2/8 2023	0.00	B, D					2.20	83.79		Brown sandy slightly gravelly sandy silty TOPSOIL with cobbles and pockets of firm grey sandy clay. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Cobbles are angular of siltstone					
	0.25	B, D						83.54	0.25						
				TCR	SCR	RQD		FI	83.09					0.70	Mottled brown, grey and orange slightly gravelly sandy CLAY with cobbles and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies siltstone, sandstone and mudstone. Cobbles are angular of weathered siltstone # FLAGSTONE
			0.70												
			2.20												
		3.70													
		5.20													
02/08							6.70					Dry			
03/08												Dry			
END OF BOREHOLE															

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD40.

Hole Diam.	To Depth	
	Boring	Casing
102	2.20	2.20
102	6.70	6.70

Driller SW	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	0.70	6.70
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:43 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill		
	Depth	Type	Depth	Result									Depth	Symbol	Depth
3/8 2023	0.00	B, D					1.20		0.30	Brown slightly sandy clayey peaty TOPSOIL with roots and rootlets. Sand is fine to coarse (H2, B2)		1.20m			
	0.50	B, D							0.90	Greyish brown slightly gravelly slightly sandy CLAY with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone					
	1.00	B, D							1.20	Dark greyish brown slightly gravelly sandy CLAY with cobbles, pockets of grey sandy silt and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Cobbles are subangular of siltstone				1.00	
	1.20	B, D	1.20							Soft to firm dark brownish grey slightly gravelly slightly sandy CLAY with bands of silt. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Cobbles are subangular of siltstone. Strong organic odour				2.00	
	1.90	B, D	2.10												
	2.60	B, D	2.60							2.60			Dark greyish brown slightly sandy very clayey fine to coarse angular GRAVEL of siltstone		3.00
	4.10														
5.55															
07/08							7.65					0.60m		7.65	
END OF BOREHOLE															

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	7.65	7.65

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	1.20	7.65
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:44 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH18

Engineer: Jacobs UK Ltd

Inspection Pit to 0.95m
Sonic Coring to 6.00m

Location: E 315813.5
N 956847.3

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
8/8 2023	0.00	B						80.68		Brown slightly gravelly sandy CLAY with rootlets. Sand is fine to coarse. Gravel is fine and medium angular to subrounded of various lithologies including siltstone, sandstone and mudstone.				
	0.50	B, D						80.18	0.50	Brownish grey very gravelly slightly silty fine to coarse SAND with cobbles and occasional rootlets. Gravel is angular and subangular medium and coarse of various lithologies including siltstone, mudstone and sandstone. Cobbles are angular and subangular of siltstone.				0.50
	0.80	B, D		TCR	SCR	RQD	FI	79.88	0.80					
	1.00	D	0.95					79.68	1.00	Brownish grey very gravelly slightly silty fine to coarse SAND with cobbles. Gravel is fine to coarse angular and subangular of various lithologies including siltstone, mudstone and sandstone. Cobbles are angular and subangular of siltstone.				1.50
														2.00
			2.45											
			4.00											
			5.50											
08/08								6.00		END OF BOREHOLE		0.50m		6.00

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 0.95m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	6.00	6.00

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL											100	Water	0.95	6.00
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:44 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: E 315947.6
N 956936.1

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result										Symbol
7/8 2023	0.00	B, D						80.34						
	0.40	B, D						79.84	0.50	Dark brown slightly gravelly slightly sandy very clayey peaty TOPSOIL with roots and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, mudstone and sandstone. H2,B2				
	0.80	B, D						79.14	1.20	Greyish brown slightly gravelly slightly sandy CLAY with roots and rootlets. Sand is fine to coarse. Gravel is fine and medium angular to subrounded of various lithologies including siltstone, mudstone and sandstone.				
	1.20	B, D						78.84	1.50	Brownish grey gravelly very silty fine to coarse SAND with pockets of friable grey silt. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone.				
	1.50	B, D	1.50	SPT=26	1.2 / 3.4.8.11				1.50		Dark brown silt bound fine to coarse SAND and angular GRAVEL. Gravel is of siltstone.			
	2.00	B, D												
	2.50	B, D												
	3.00	B, D	3.00	SPT>50	2.7 / 10.16.12.12 (280)				3.00		Firm-stiff dark brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone			
	4.00	B, D												
	4.50	B, D	4.50		TCR	SCR	RQD	FI	75.84	4.50	(Weathered rock head) brownish grey sandy silty fine to coarse angular to subrounded GRAVEL of various lithologies including mudstone and siltstone with pockets of firm clay. Sand is fine to medium			
		6.00												
		7.50												
		9.00												

Remarks:
Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD140.

Hole Diam.	To Depth	
	Boring	Casing
102	9.00	4.50
102	15.00	

Driller SW	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	15.00
Chk & App	Status PRELIM													



Fig No:
B
Sheet 1 of 2
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH19

Engineer: Jacobs UK Ltd

Inspection Pit to
Sonic Boring to
Sonic Coring to

1.20m
4.50m
15.00m

Location: E 315947.6
N 956936.1

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests			Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result								Symbol	Depth
			9.00				80.34						
			10.50										
			12.00										
			13.50										

END OF BOREHOLE													
											Dry		15.00

Remarks:
Description based on Driller's log.
An inspection pit was excavated by hand to a depth of 1.20m to clear services.
No ground-water observations are recorded due to the use of water flush.
The Penetration Tests were carried out using Trip Hammer RD140.

Hole Diam.	To Depth	
	Boring	Casing
102	9.00	4.50
102	15.00	

Driller SW	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	15.00
Chk & App	Status PRELIM													



Fig No:
B
Sheet 2 of 2
Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:45 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand Excavation Tools, Sonic

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill Symbol	Backfill Depth
	Depth	Type	Depth	Result										
10/8 2023	0.00	B, T							0.40	Plastic dark brown clayey pseudofibrous PEAT with rootlets and pockets of greyish brown silt (H3, B1)	∩ ∩ ∩		∩ ∩ ∩	0.50
	0.50	B, T							1.00	Mottled grey and brown slightly gravelly slightly sandy SILT with traces of vegetation and rootlets. Sand is fine to coarse. Gravel is fine and medium angular to subrounded of various lithologies including siltstone, sandstone and mudstone	x o x			
	1.00	B, T							1.20	Weathered SILTSTONE recovered as dark brownish grey very clayey fine to coarse sand and fine to coarse angular gravel with pockets of dark brownish grey slightly gravelly sandy clay	x x x			
			1.20	TCR	SCR	RQD	FI							
			2.70											
			4.00											
			5.55											
		7.10												
10/08								8.40		END OF BOREHOLE				8.40

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 The borehole was backfilled.

Hole Diam.	To Depth	
	Boring	Casing
145	8.40	8.40

Driller SMcL	Originator KF	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.20	8.40
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 7 10999 Printed: 16/08/2023 11:26:46 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
2/8 2023	0.10	B, D							0.30	Brown sandy TOPSOIL with rootlets. Sand is fine to coarse				
	0.50	B, D							0.80	Friable brownish grey slightly gravelly sandy SILT with rootlets; locally passing to a very silty sand. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone			0.50	
			TCR	SCR	RQD	FI								
										0.80	# GREY SILTSTONE			
														2.00
														2.50
02/08									7.05	END OF BOREHOLE		0.90m		7.05

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 0.90m to clear services. Exemption No. 47/2023.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 7.05m.

Hole Diam.	To Depth	
	Boring	Casing
145	7.05	7.05

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
DJ											100	Water	0.80	7.05
Chk & App	Status													
	PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:47 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH21

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Coring to 1.50m

Location: E 315989.2
N 957059.6

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Boart Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests		Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result							Symbol	Depth
8/8 2023	0.00	B, D				78.40						
	0.30	B, D										
										Dry		

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.

Hole Diam.	To Depth	
	Boring	Casing
145	1.50	1.50

Driller SW	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	0.50	1.50
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:47 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: E 315832.3
N 956957.1

Orientation: Vertical

Equipment: Track Mounted Boart Longyear LS250 Mini Sonic; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill Depth
	Depth	Type	Depth	Result									
3/8 2023	0.10	B, D					79.58	0.10	Spongy dark brown slightly gravelly sandy pseudofibrous PEAT. Sand is fine to coarse. Gravel is fine and medium subangular to rounded of various lithologies including mudstone, sandstone and siltstone (H2, B2)	[Symbol]	0.80m	0.10	
	0.50	B, D					78.78	0.80					Grey gravelly clayey fine to coarse SAND with roots. Gravel is fine to coarse angular to subrounded of siltstone
				TCR	SCR	RQD	FI		# GREY SILTSTONE				
			1.00										
			2.40										
			3.95										
		5.35											
03/08							6.85		END OF BOREHOLE			6.85	

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.00m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.

Hole Diam.	To Depth	
	Boring	Casing
145	6.85	6.85

Driller DJ	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
Chk & App	Status PRELIM													



Fig No:
B
Sheet 1 of 1
Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:48 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

BH23

Engineer: Jacobs UK Ltd

Inspection Pit to 1.20m
Sonic Coring to 5.80m

Location:

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bore Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill
	Depth	Type	Depth	Result									
7/7 2023	0.10	B, D							Brown slightly sandy SILT with peat pockets, roots and rootlets. Sand is fine.	x .x .x x .x .x x .x .x	1.20m	0.10	
	0.50	B, D		TCR	SCR	RQD	FI	0.50	Greenish grey slightly sandy SILT with clay pockets and organic matter. Sand is fine	x .x .x x .x .x x .x .x			
			0.60										
			2.10										
			3.50										
5.00													
08/08						5.80		END OF BOREHOLE		0.85m	5.80		

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.

Hole Diam.	To Depth	
	Boring	Casing
145	5.80	5.80

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
DJ											100	Water	0.60	5.80
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:49 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand excavation Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 7 10999 Printed: 16/08/2023 11:26:49 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill	
	Depth	Type	Depth	Result									Symbol	Depth
8/8 2023	0.00	B, D							MADE GROUND (brown slightly gravelly sandy clayey TOPSOIL with rootlets and brick fragments. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including silstone, sandstone and mudstone)	[Cross-hatched pattern]			0.30	
	0.50	B, D, ES						0.50	...from 0.00m to 1.20m: faint odour of burnt rubber				0.80	
	1.00	B, D							MADE GROUND (dark greyish brown slightly gravelly sandy clay with cobbles and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including silstone, sandstone and mudstone. Cobbles are subangular and su				1.00	
	1.20	UT												
	1.45	B, D							...between 1.70m and 1.90m: abundant grass debris throughout clay					
	1.80	ES												
	2.00	B, D												
	2.40	D							2.40					
	2.50			TCR	SCR	RQD	FI		2.50		Spongy, locally plastic dark brown clayey pseudofibrous PEAT with rootlets	[X X X]		2.50
	2.70								2.70		Weathered SILTSTONE recovered as orangeish brown sandy clayey fine to coarse angular gravel # FLAGSTONE	[X X X]		
08/08			4.10				4.10				2.05m			
			5.60								2.05m			
			7.10											
09/08							7.95		END OF BOREHOLE		1.95m		7.95	

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.20m to clear services.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD54.
 A 50mm diameter perforated standpipe was installed to a depth of 2.50m.

Hole Diam.	To Depth	
	Boring	Casing
175	2.70	2.70
146	7.95	7.95

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
SMcL	KF										100	Water	2.70	7.95
Chk & App	Status	PRELIM												



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Location: E 315764.0
N 957052.3

Orientation: Vertical

Equipment: Hand Tools, Track Mounted Bort Longyear
LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill Depth
	Depth	Type	Depth	Result									
3/8 2023	0.10	B, D						78.14		Brown slightly gravelly slightly sandy peaty TOPSOIL with cobbles, pockets of spongy dark brown pseudofibrous peat, roots and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone. Cobbles are subangular of sandstone and siltstone (H2, B2) Greyish brown very gravelly very silty fine to coarse SAND with cobbles and rootlets. Gravel is fine to coarse angular to subrounded of siltstone. Cobbles are subangular of siltstone # GREY SILTSTONE			0.10
	0.50	B, D						77.79	0.35				
			TCR	SCR	RQD	FI		77.14	1.00				
			1.00										
			2.40										
		3.80											
03/08			5.30					5.30			0.90m		
07/08								6.55			2.40m		
											3.20m	6.55	

END OF BOREHOLE													

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 1.00m to clear services. Exemption No. 50/2023.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD48.

Hole Diam.	To Depth	
	Boring	Casing
145	5.30	5.30
145	6.55	6.55

Driller	Originator	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
DJ											100	Water	1.00	5.30
											100	Water	5.30	6.55
Chk & App	Status													
	PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:50 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: Hand Excavation Tools, Track Mounted Boart Longyear LS250 Mini Sonic; Geobor S; Water Flush

Progress	Samples		Tests				Casing Depth	Level (mOD)	Depth	Description of Strata	Legend	Water Depth	Backfill			
	Depth	Type	Depth	Result									Symbol	Depth		
9/8 2023	0.00	B, D							0.25	Brown slightly gravelly sandy TOPSOIL with rootlets and pockets of friable mottled grey, brown and orange sandy silt. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone Mottled brown and grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, sandstone and mudstone Weathered SILTSTONE recovered as brown sandy very silty fine to coarse angular gravel. Sand is fine to coarse		1.50m		0.50		
	0.25	B, D						0.65								
	0.65	B, D														
	1.00	B, D														
				TCR	SCR	RQD	FI		1.50							
									2.60							
09/08									4.10							
									5.60					6.00		
10/08														7.10		
END OF BOREHOLE																

Remarks:
 # Description based on Driller's log.
 An inspection pit was excavated by hand to a depth of 0.65m to clear services. Exemption No. 55/2023.
 No ground-water observations are recorded due to the use of water flush.
 The Penetration Tests were carried out using Trip Hammer RD140.
 A 50mm diameter perforated standpipe was installed to a depth of 6m.

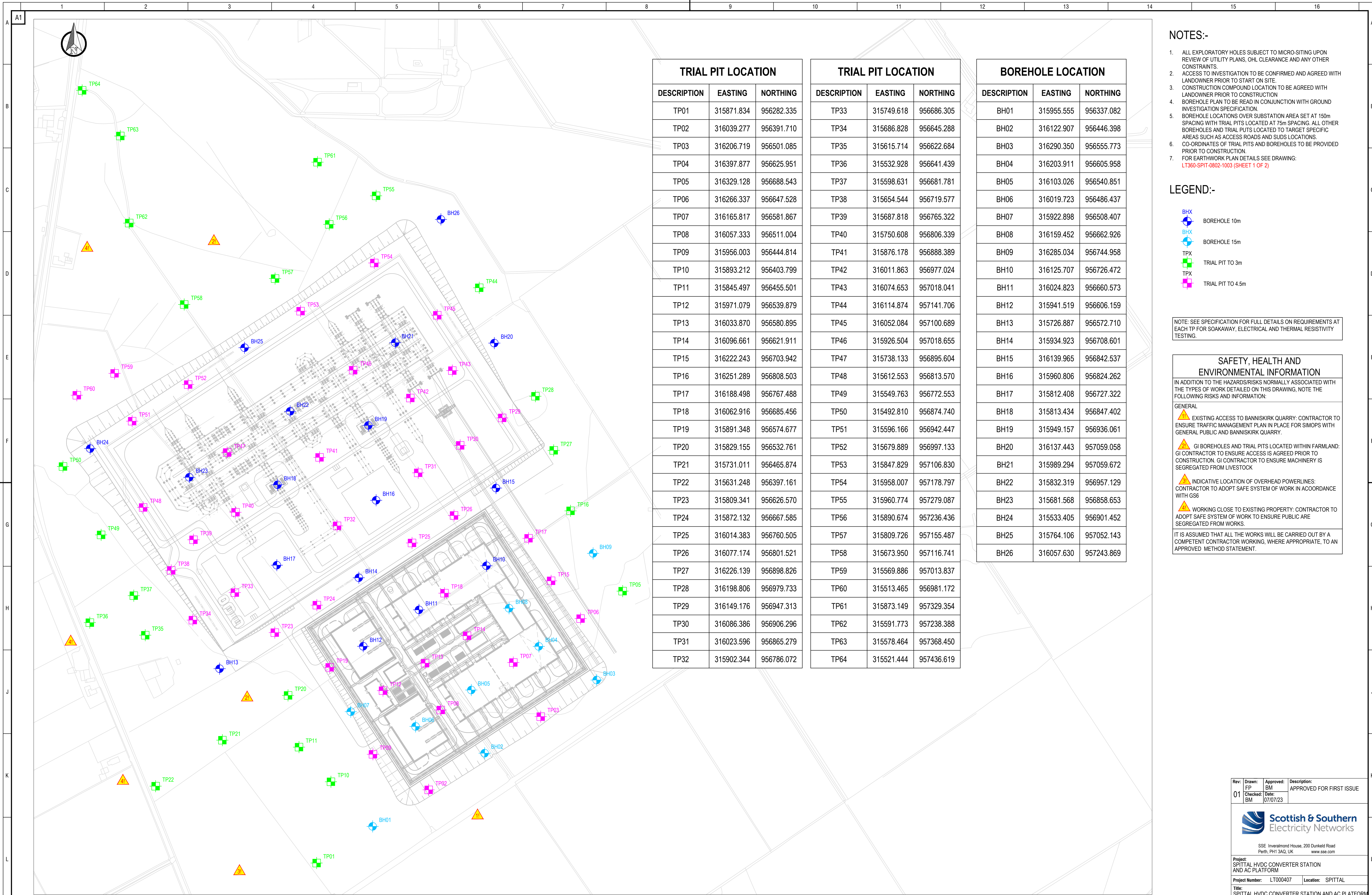
Hole Diam.	To Depth	
	Boring	Casing
175	1.50	1.50
146	7.10	7.10

Driller SW	Originator KF	Ground-water				Water Added		Chiselling			Flush			
		Struck	Rose To	Time(min)	Cut Off	From	To	From	To	hh:mm	Returns	Type	From (m)	To (m)
											100	Water	1.50	7.10
Chk & App	Status PRELIM													



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Style: BOREHOLE NEW File: P:\GINTWP\PROJECTS\26470.GPJ-44 (0)1698 710999 Printed: 16/08/2023 11:26:51 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com



TRIAL PIT LOCATION		
DESCRIPTION	EASTING	NORTHING
TP01	315871.834	956282.335
TP02	316039.277	956391.710
TP03	316206.719	956501.085
TP04	316397.877	956625.951
TP05	316329.128	956688.543
TP06	316266.337	956647.528
TP07	316165.817	956581.867
TP08	316057.333	956511.004
TP09	315956.003	956444.814
TP10	315893.212	956403.799
TP11	315845.497	956455.501
TP12	315971.079	956539.879
TP13	316033.870	956580.895
TP14	316096.661	956621.911
TP15	316222.243	956703.942
TP16	316251.289	956808.503
TP17	316188.498	956767.488
TP18	316062.916	956685.456
TP19	315891.348	956574.677
TP20	315829.155	956532.761
TP21	315731.011	956465.874
TP22	315631.248	956397.161
TP23	315809.341	956626.570
TP24	315872.132	956667.585
TP25	316014.383	956760.505
TP26	316077.174	956801.521
TP27	316226.139	956898.826
TP28	316198.806	956979.733
TP29	316149.176	956947.313
TP30	316086.386	956906.296
TP31	316023.596	956865.279
TP32	315902.344	956786.072

TRIAL PIT LOCATION		
DESCRIPTION	EASTING	NORTHING
TP33	315749.618	956686.305
TP34	315686.828	956645.288
TP35	315615.714	956622.684
TP36	315532.928	956641.439
TP37	315598.631	956681.781
TP38	315654.544	956719.577
TP39	315687.818	956765.322
TP40	315750.608	956806.339
TP41	315876.178	956888.389
TP42	316011.863	956977.024
TP43	316074.653	957018.041
TP44	316114.874	957141.706
TP45	316052.084	957100.689
TP46	315926.504	957018.655
TP47	315738.133	956895.604
TP48	315612.553	956813.570
TP49	315549.763	956772.553
TP50	315492.810	956874.740
TP51	315596.166	956942.447
TP52	315679.889	956997.133
TP53	315847.829	957106.830
TP54	315958.007	957178.797
TP55	315960.774	957279.087
TP56	315890.674	957236.436
TP57	315809.726	957155.487
TP58	315673.950	957116.741
TP59	315569.886	957013.837
TP60	315513.465	956981.172
TP61	315873.149	957329.354
TP62	315591.773	957238.388
TP63	315578.464	957368.450
TP64	315521.444	957436.619

BOREHOLE LOCATION		
DESCRIPTION	EASTING	NORTHING
BH01	315955.555	956337.082
BH02	316122.907	956446.398
BH03	316290.350	956555.773
BH04	316203.911	956605.958
BH05	316103.026	956540.851
BH06	316019.723	956486.437
BH07	315922.898	956508.407
BH08	316159.452	956662.926
BH09	316285.034	956744.958
BH10	316125.707	956726.472
BH11	316024.823	956660.573
BH12	315941.519	956606.159
BH13	315726.887	956572.710
BH14	315934.923	956708.601
BH15	316139.965	956842.537
BH16	315960.806	956824.262
BH17	315812.408	956727.322
BH18	315813.434	956847.402
BH19	315949.157	956936.061
BH20	316137.443	957059.058
BH21	315989.294	957059.672
BH22	315832.319	956957.129
BH23	315681.568	956858.653
BH24	315533.405	956901.452
BH25	315764.106	957052.143
BH26	316057.630	957243.869

NOTES:-

- ALL EXPLORATORY HOLES SUBJECT TO MICRO-SITING UPON REVIEW OF UTILITY PLANS, OHL CLEARANCE AND ANY OTHER CONSTRAINTS.
- ACCESS TO INVESTIGATION TO BE CONFIRMED AND AGREED WITH LANDOWNER PRIOR TO START ON SITE.
- CONSTRUCTION COMPOUND LOCATION TO BE AGREED WITH LANDOWNER PRIOR TO CONSTRUCTION
- BOREHOLE PLAN TO BE READ IN CONJUNCTION WITH GROUND INVESTIGATION SPECIFICATION.
- BOREHOLE LOCATIONS OVER SUBSTATION AREA SET AT 150m SPACING WITH TRIAL PITS LOCATED AT 75m SPACING. ALL OTHER BOREHOLES AND TRIAL PITS LOCATED TO TARGET SPECIFIC AREAS SUCH AS ACCESS ROADS AND SUDS LOCATIONS.
- CO-ORDINATES OF TRIAL PITS AND BOREHOLES TO BE PROVIDED PRIOR TO CONSTRUCTION.
- FOR EARTHWORK PLAN DETAILS SEE DRAWING: LT360-SPIT-0802-1003 (SHEET 1 OF 2)

LEGEND:-

- BOREHOLE 10m
- BOREHOLE 15m
- TRIAL PIT TO 3m
- TRIAL PIT TO 4.5m

NOTE: SEE SPECIFICATION FOR FULL DETAILS ON REQUIREMENTS AT EACH TP FOR SOAKAWAY, ELECTRICAL AND THERMAL RESISTIVITY TESTING.

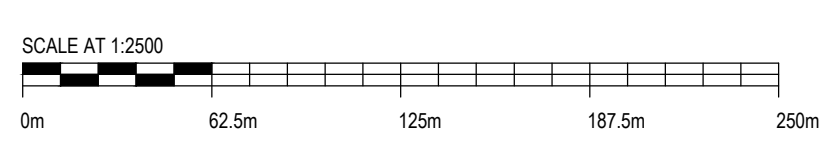
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION:

GENERAL

- EXISTING ACCESS TO BANNSKIRK QUARRY: CONTRACTOR TO ENSURE TRAFFIC MANAGEMENT PLAN IN PLACE FOR SIMOPS WITH GENERAL PUBLIC AND BANNSKIRK QUARRY.
- GI BOREHOLES AND TRIAL PITS LOCATED WITHIN FARMLAND: GI CONTRACTOR TO ENSURE ACCESS IS AGREED PRIOR TO CONSTRUCTION. GI CONTRACTOR TO ENSURE MACHINERY IS SEGREGATED FROM LIVESTOCK
- INDICATIVE LOCATION OF OVERHEAD POWERLINES: CONTRACTOR TO ADOPT SAFE SYSTEM OF WORK IN ACCORDANCE WITH G56
- WORKING CLOSE TO EXISTING PROPERTY: CONTRACTOR TO ADOPT SAFE SYSTEM OF WORK TO ENSURE PUBLIC ARE SEGREGATED FROM WORKS.

IT IS ASSUMED THAT ALL THE WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.



GROUND INVESTIGATION LAYOUT PLAN
SCALE 1:2500

OS MASTERMAP
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Rev: 01	Drawn: FP	Approved: BM	Description: APPROVED FOR FIRST ISSUE
Checked: BM	Date: 07/07/23		
Project: SPITAL HVDC CONVERTER STATION AND AC PLATFORM Project Number: LT000407 Location: SPITAL Title: SPITAL HVDC CONVERTER STATION AND AC PLATFORM GROUND INVESTIGATION PLAN			
Drawing Status: For Information	Drawn: JB	Scale: 1:2,500	Checked: BM
Date: 09/05/2023	Approved: BM	Revision No: 01	Sheet No: 01
Drawing Number: LT407_SPIT_0802_1001	Date Plotted: 07/07/2023	File Name: LT407_SPIT_0802_1001.dwg	

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP01

Trial Pit to 1.20m

Location: E 315872.8
N 956286.8

Orientation: Vertical

Equipment: 14T Tracked mechanical excavator

Width - 0.70m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
26/7 2023	0.00	B, D		89.36		Brown slightly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.50	B, D		89.06	0.30	Soft mottled greyish yellow and orange brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone				
	0.80	B, D		88.56	0.80	Grey gravelly slightly clayey fine to coarse SAND. Gravel is fine to coarse angular to subrounded of sandstone				
	1.20	B		88.26 88.16	1.10 1.20	Hitting bedrock - flagstone				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:41:23 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP02

Trial Pit to 0.90m

Location: E 316037.4
N 956394.5

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
277 2023	0.00	B, D		89.94		Brown sandy silty TOPSOIL with frequent rootlets. Sand is fine to coarse				
	0.50	D, D, ES, LB		89.64	0.30	Firm mottled brown, grey and orange brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone				
				89.14	0.80					
				89.04	0.90	OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 0.80m.
Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 0.90	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: E 316206.7
N 956500.6

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		90.45	0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to coarse				
	0.50	B, D, ES		90.15		Soft slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and granite				
	1.00	B, D, ES		89.45	1.00	Firm slightly sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of siltstone and granite. Cobbles are subangular of siltstone				
	1.30	LB		88.95	1.50					
	28/7			88.85	1.60	OBSTRUCTION (probable rock)				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 1.10m
Trial pit was terminated at a depth of 1.60m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status	1.10			
	PRELIM				



Fig No: B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
8/8 2023	0.50 0.50	LB	HV at 0.50m I=48 R=10kPa		0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to				
					1.00	Soft slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and granite				
7/8					1.40	Firm, slightly sandy gravelly SILT with medium cobble. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded of siltstone and granite. Subangular cobbles of Siltstone				
						OBSTRUCTION (probable rock) END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.10m.
 Trial pit was terminated at a depth of 1.40m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Excavatibility
rips depth (m)

0	1.4
10.00	1.65
20	1.8
30.00	1.95
40	1.95
50.00	2.00

Material size 1.0 x 0.50 x 0.30 Rock description Thinly laminated SILTSTONE dipping NNE at 10° discontinuities 1 subvertical discontinuity 295

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Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.10	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: E 316395.5
N 956633.4

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		89.24	0.00	Dark brown psuedo-fibrous peaty TOPSOIL with rootlets (H4,B3)				
	0.50	B, D		88.94	0.30	Soft slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and granite				
	0.80	B, D		88.24	1.00					
28/7				88.14	1.10	OBSTRUCTION (probable rock)		Dry		
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission

Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No. TP05

Trial Pit to 1.10m

Location: E 316328.0
N 956691.3

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		87.94	0.30	Brownish grey slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and granite				
	0.50	B, D, ES				Soft to firm slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone. Cobbles are angular of siltstone				
	0.80	B, D								
	1.00	ES		86.94	1.00					
28/7				86.84	1.10	OBSTRUCTION (probable rock)		Dry		
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.
 In-situ Thermal Resistivity undertaken 0.90m.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: E 316265.2
N 956651.8

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		87.98		Dark brown grey clayey psuedo-fibrous peaty TOPSOIL with rootlets (H3,B3)				
	0.50	B, D		87.68	0.30	Grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone				
	1.00	B, D, LB		87.18	0.80	Grey slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone. Cobbles are subangular and subrounded of siltstone				
				86.88 86.78	1.10 1.20	OBSTRUCTION (probable rock)		Dry		
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
8/8 2023	0.50	LB			0.30	Dark brown grey clayey psuedofibrous peaty TOPSOIL with rootlets. H3B3				
					0.80	Grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone.				
8/8					1.10	Grey gravelly sandy SILT with minor cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone. Subangular to subrounded cobbles of siltstone				
					1.20	OBSTRUCTION (probable drock) END OF TRIAL PIT		Dry		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 2.50m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Excavatibility
 rips depth (m)
 0 1.1
 10.00 1.3
 20 1.45
 30.00 1.5
 40 1.55
 50.00 1.55
 Material size
 0.60 x 0.45 x 0.07

Rock description
 Thinly laminated SILTSTONE dipping NNE at 10°

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: E 316171.0
N 956578.7

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		89.09		Dark brown psuedo-fibrous, locally fibrous peaty TOPSOIL with rootlets (H3,B4)				
	0.50	B, D, ES		88.59	0.50	Firm brownish grey slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, granite and mudstone. Cobbles are subangular to rounded of granite ad siltstone				
	0.80	B		88.29	0.80					
	1.00	D, ES				Firm greyish blue gravelly sandy SILT with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, granite and mudstone. Cobbles and boulders are subangular to rounded of granite and siltstone (up to 600mm)				
	1.50	D, D, LB								
	2.20	B								
	2.50	D								
28/7				86.29 86.19	2.80 2.90	OBSTRUCTION (probable rock)			Dry	
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 2.90m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: E 316051.9
N 956511.2

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
27/7 2023	0.00	B, D		87.60		Dark brown amorphous peaty TOPSOIL with frequent rootlets and low boulder content. Boulders are subangular and subrounded of sandstone				
	0.50	B, D		87.30	0.30	Soft and firm mottled grey, brown and orange brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and granite				
	0.80	B		86.80	0.80	Firm blueish grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and mudstone				
	1.00	D								
	1.50	D, LB								
	2.50	B		85.10	2.50	Stiff grey slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and mudstone. Cobbles are subangular and subrounded of sandstone and granite OBSTRUCTION (probable rock) END OF TRIAL PIT				
			84.90	2.70						
			84.80	2.80						

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 2.00m.
 Trial pit was terminated at a depth of 2.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 2.00	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill		
		Type	Result						Symbol	Depth	
8/8 2023	1.20	LB			0.30	Dark brown amorphous peaty TOPSOIL with rootlets and minor boulders content					
			0.80	Soft to Firm Mottled slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of flagstone and granite							
			2.50	Firm blueish grey gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including flagstone, granite, mudstone							
8/8			2.70 2.80	Stiff grey sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including flagstone, granite, mudstone. Subangular to subrounded cobbles of flagstone and granite							
						<p>OBSTRUCTION (probable rock)</p> <p>END OF TRIAL PIT</p>					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 2.00m.
 Trial pit was terminated at a depth of 2.40m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Excavatibility	rips	depth (m)
0	2.7	
10.00	3.30	

Material size	Rock description
0.70 x 0.60 x 0.11	Thinly laminated SILTSTONE dipping NNE at 10°

Driller	Originator	Ground-water					Fig No: B
		Struck 2.00	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM					Sheet 1 of 1	
						Scale 1:50	

Location: E 315953.8
N 956445.7

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2777 2023	0.00	B, D		88.03	0.30	Brown slightly gravelly sandy silty TOPSOIL with frequent rootlets. Sand is fine to coarse. Gravel is fine to coarse angular of sandstone		Dry		
	0.50	B, D		87.73	0.30	Firm mottled grey, orange brown and brown slightly gravelly sandy CLAY with medium cobble content Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of granite and sandstone. Cobbles are angular of sandstone				
	1.00 1.20	B, D LB		86.63 86.53	1.40 1.50					
2777						OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP10

Trial Pit to 1.80m

Location: E 315894.4
N 956411.3

Orientation: Vertical

Equipment: 14T Tracked excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
26/7 2023	0.00	B, D		87.54	0.30	Brown slightly gravelly sandy silty TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of sandstone		Dry		
	0.50	B, D				Firm mottled greyish brown and orange brown slightly sandy slightly gravelly CLAY with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and quartzite. Cobbles and boulders are angular of sandstone				
	1.00	B, D								
	1.40	B		85.94	1.60					
	1.50	D		85.74	1.80	Hitting bedrock - flagstone				
26/7	END OF TRIAL PIT									

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 1.80m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: E 315845.1
N 956456.2

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - m Length - m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
26/7 2023	0.00	B, D		85.83	0.30	Brownish grey slightly gravelly sandy silty TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine and medium subangular and subrounded of quartzite				
	0.50	B, D, ES		85.53		Firm mottled greyish brown and orange brown slightly gravelly slightly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and quartzite. Cobbles are subangular of sandstone				
	1.00	B, D, ES		84.93	0.90	Firm slightly sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone. Cobbles are subangular of sandstone				
	1.50	D								
	1.60	B								
				83.63	2.20					
				83.53	2.30	Hitting bedrock - Flagstone				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 1.70m.
Trial pit was terminated at a depth of 2.30m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status	1.70			
	PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: E 315971.4
N 956540.0

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
277 2023	0.00	B, D		86.16		Dark brown amorphous locally psuedo-fibrous peaty TOPSOIL with frequent rootlets (H7, B2)				
	0.50	B, D		85.76	0.40	Grey slightly gravelly silty fine to coarse SAND with medium cobble content. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and mudstone. Cobbles are angular to subrounded of granite and sandstone				
	1.00	B, D								
	1.50	LB		84.66	1.50	Stiff grey slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and mudstone. cobbles are subangular and subrounded of granite and sandstone				
	2.50	B, D								
	3.00	B, D								
277	4.00	B, D		82.16	4.00	Stiff slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, granite and mudstone. cobbles are angular to subrounded of sandstone and granite				
				81.66	4.50	END OF TRIAL PIT		Dry		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 4.50m due to reaching scheduled depth.
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: E 316027.5
N 956577.1

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
277 2023	0.00	B, D		87.40		Brown sandy clayey TOPSOIL with frequent rootlets. Sand is fine to coarse				
	0.50	B, D, ES		87.10	0.30	Dark brown amorphous, locally psuedo-fibrous plastic PEAT (H7,B2)				
	1.00	B, D, ES		86.85	0.55	Firm mottled grey, brown and orange brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of various lithologies sandstone, mudstone, quartzite and granite				
	1.50	LB								
	2.00	B								
	2.50	D			84.90	2.50				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 2.00m.
Trial pit was terminated at a depth of 2.50m due to hard digging (probalbe bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck 2.00	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
8/8 2023	0.80	LB			0.30	Brown clayey sandy TOPSOIL with rootlets. Sand is fine to coarse				
					0.55	Dark brown amorphous locally psuedofibrous PEAT. (H7B2)				
					2.30	Firm mottled greyisg brownish orange slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine and coarse, subangular to subrounded of various lithologies flagstone, mudstone, quartzite, granite.				
					2.50	OBSTRUCTION (probable rock)				
8/8						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 2.00m.
 Trial pit was terminated at a depth of 2.50m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Excavatability	rips	depth (m)
0	2.3	
10.00	2.65	

Material size	Rock description
0.65 x 0.35 x 0.08	Thinly laminated SILTSTONE dipping NNE at 10°

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Driller	Originator FP	Ground-water			
		Struck 2.00	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No: B
Sheet 1 of 1
Scale 1:50

Location: E 316098.6
N 956624.2

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill		
		Type	Result						Symbol	Depth	
28/7 2023	0.00	B, D		88.12		Dark brown psuedo-fibrous, locally fibrous peaty TOPSOIL with rootlets (H4,B3)					
	0.40	B		87.82	0.30	Firm brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine and medium angular to subrounded of siltstone and granite					
	0.50	D		87.52	0.60						
	1.00	B, D				Firm greyish blue slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, granite and mudstone. Cobbles are angular to subrounded of various lithologies including siltstone, granite, mudstone					
	1.50	LB									
2.00	B, D			86.12	2.00						
28/7				85.72	2.40	Firm greyish blue slightly gravelly sandy SILT with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone, granite and mudstone. Cobbles and boulders are angular to subrounded of various lithologies including siltstone, granite and mudstone (up to 600mm)			Dry		
				85.62	2.50						
						OBSTRUCTION (probable bedrock)					
						END OF TRIAL PIT					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 2.50m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: E 316220.4
N 956707.4

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 2.50m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
28/7 2023	0.00	B, D		87.74	0.20	Dark brownish grey clayey psuedo fibrous, locally fibrous peaty TOPSOIL with rootlets				
	0.50	B, D, ES				Soft to firm greyish brown and light brown slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of various lithologies including granite, siltstone and mudstone. Cobbles are angular to subrounded of siltstone and granite				
	1.00	B, D, ES		86.94	1.00					
	1.50	LB				Firm greyish blue slightly sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including granite, siltstone and mudstone. Cobbles are angular to subrounded of various lithologies including siltstone, mudstone and granite				
	2.00	B, D, D		85.94	2.00					
28/7				85.74	2.20	Firm to stiff greyish blue slightly sandy gravelly SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including siltstone, granite and mudstone. Cobbles are angular to subrounded of various lithologies including siltstone, mudstone and granite				
				85.64	2.30	OBSTRUCTION (probable bedrock) END OF TRIAL PIT		Dry		

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 2.30m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.
In-situ thermal resistivity test carried out at a depth of 0.80m

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
8/8 2023	0.60	LB			0.20	Dark brown grey clayey psuedofibrous locally fibrous peaty TOPSOIL with rootlets.				
					1.00	Soft to Firm greyish light brown slightly gravelly sandy SILT with minor cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of various lithologies including granite, siltstone and mudstone. Angular to subrounded cobbles of siltstone and granite				
					2.00	Firm greyish blue slightly sandy gravelly SILT with medium cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including granite, siltstone and mudstone. Angular to subrounded cobbles of various lithologies including siltstone, granite, and mudstone.				
8/8					2.20 2.30	Firm to stiff greyish blue slightly sandy gravelly SILT with medium cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including siltstone, granite and mudstone. Angular to subrounded cobbles of various lithologies including siltstone, granite, and mudstone.				
						OBSTRUCTION (probable bedrock) END OF TRIAL PIT		Dry		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 2.30m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Excavatability rips depth (m)	Time (mins)
0	2.3
10.00	2.4
20	2.45
30.00	2.5
40	2.50
50.00	2.50

Material size 0.50 x 0.35 x 0.05 Rock description Thinnly laminated SILTSTONE dipping NNE at 10°

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No: B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill		
		Type	Result						Symbol	Depth	
31/7 2023	0.00	B, D			0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to coarse					
	0.50	B, D			Soft, locally firm grey, locally orange brown slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltsone and sandstone. Cobbles are angular of siltstone						
	0.80	B, D									
31/7					1.00						
					1.10	OBSTRUCTION (probable rock)					
						END OF TRIAL PIT					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.10m.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck 1.00	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
31/7 2023	0.00	B, D			0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.50	B, D, ES			0.30	Soft, locally firm grey, locally orange brown slightly gravelly sandy SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltsone and sandstone. Cobbles are angular of siltstone				
	0.80	D, LB			1.30					
	1.00	ES			1.40					
31/7						OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.40m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
31/7 2023	0.00	B, D			0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to coarse				
	0.50	B, D				Soft, locally firm greyish blue locally orange brown slightly gravelly sandy SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and sandstone. Cobbles are angular of siltstone.				
	1.00	D, LB								
	1.50	B, D								
31/7					1.70 1.80	OBSTRUCTION (probable rock) END OF TRIAL PIT		Dry		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission

Trial Pit No.
TP18A

Engineer: Jacobs UK Ltd

Location:

Orientation: Vertical

Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
8/8 2023	1.00	LB								

Remarks:

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:

B
Sheet 1 of 1
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP19

Trial Pit to 1.80m

Location: E 315890.9
N 956575.8

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
31/7 2023	0.00	B, D		84.80	0.30	Brown sandy silty TOPSOIL with rootlets. Sand is fine to coarse				
	0.50	B, D				Soft, locally firm greyish blue, locally orange brown slightly gravelly sandy SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and sandstone. Cobbles are angular of siltstone.				
	1.00	D, LB								
	1.50	B, D								
31/7				83.10 83.00	1.70 1.80	OBSTRUCTION (probable rock) END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 1.55m.
Trial pit was terminated at a depth of 1.80m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.55	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: E 315826.6
N 956532.5

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
1/8 2023	0.00	B, D		84.55		Brown slightly sandy slightly gravelly silty TOPSOIL with rootlets and medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone mudstone. Cobbles are subrounded of various lithologies including siltstone, mudstone and sandstone Soft, locally firm mottled greyish brown, locally orange brown slightly gravelly sandy CLAY with rootlets and medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular to subangular of sandstone Firm, locally stiff blueish grey slightly gravelly sandy SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subangular of sandstone OBSTRUCTION (Probable rock)				
	0.40	B		84.15	0.40					
	0.50	D		83.85	0.70					
	0.50									
	1.00	B, D								
1/8				82.95	1.60					
				82.85	1.70					
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.60m.
 Trial pit was terminated at a depth of 1.70m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water			
		Struck 0.60	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: E 315729.9
N 956468.2

Orientation: Vertical

Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
1/8 2023	0.00	B, D		83.89	0.30	Brown slightly gravelly sandy silty TOPSOIL with rootlets and low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular to rounded of sandstone and mudstone. Cobbles are subrounded of various lithologies including siltstone, mudstone and sandstone				
	0.50	B, D		83.59	0.30	Soft, locally firm mottled orange brown slightly gravelly sandy CLAY with rootlets and medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subangular of sandstone				
	0.70	B, D		82.99	0.90	Firm to stiff greyish blue slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are subangular of sandstone and siltstone				
	1.00	B, D								
	1.50	B, D								
	2.00	B, D								
1/8	2.50	B, D		81.39	2.50	Stiff, locally firm dark grey slightly gravelly sandy CLAY with low cobble and boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles and boulders are angular and subangular of sandstone (up to 600mm)				
				80.89	3.00	END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 2.50m.
Trial pit was terminated at a depth of 3.00m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 2.50	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
1/8 2023	0.00	B, D				Brown slightly gravelly slightly sandy silty TOPSOIL with rootlets and low cobble content. Sand is fine to coarse. Gravel is fine to coarse subangular and subrounded of sandstone. Cobbles are subangular of sandstone				
	0.40	B			0.40	Soft, locally firm mottled orange brown slightly gravelly sandy CLAY with rootlets and medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subangular of sandstone and siltstone				
	0.50	D, ES			0.70	Soft, locally firm mottled orange brown slightly gravelly sandy CLAY with medium cobble content and low blouder content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of various lithologies including sandstone, mudstone and granite. Cobbles and boulders are angular and subangular of sandstone and siltstone (up to 600mm)				
	0.70				1.00	Soft, locally firm grey slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of various lithologies including sandstone, mudstone and granite. Cobbles are angular and subangular of sandstone				
	1.00	B, D, ES			1.40	OBSTRUCTION (probable rock)				
	1.50	B, D			2.00					
	2.00	B, D			2.50					
	2.50	B, D			3.00					
	3.00				3.40					
1/8						END OF TRIAL PIT			Dry	

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 3.40m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

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Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Contract No: 26470

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Trial Pit No. TP23

Trial Pit to 1.70m

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
1/8 2023	0.00	B, D, ES			0.30	Brown slightly gravelly sandy silty TOPSOIL with rootlets and low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are subangular of siltstone	(diagonal lines)			
	0.50	B, D			0.80	Soft greyish brown, locally orange brown slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are subangular of siltstone	(x's)			
	1.00	B, D, ES				Soft, locally firm greyish blue, locally orange brown slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are subangular of siltstone	(o's)			
	1.40 1.50	B D								
1/8					1.70	----- END OF TRIAL PIT		Dry		

Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.70m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				

Fig No:
B
Sheet 1 of 1
Scale 1:50

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:41:45

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
31/7 2023	0.00	B, D				Dark brown silty fibrous peaty TOPSOIL with rootlets				
	0.30	B				Soft, greyish brown slightly gravelly sandy SILT with low cobble content and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are subrounded of sandstone		Dry		
	0.40	D								
	0.70	B				Soft, locally firm greyish blue slightly gravelly sandy SILT with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are subrounded of sandstone				
	0.80	D								
1/8					OBSTRUCTION (probable rock)					
					END OF TRIAL PIT					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission

Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No. TP25

Trial Pit to 2.10m

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D	HV at 0.60m I=73 R=19kPa			Brown, slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Soft grey slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular and subangular cobbles of siltstone and mudstone Firm, locally soft greyish blue locally orange slightly sandy gravelly SILT with medium cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of siltstone and mudstone				
	0.50	B, D								
	0.60	B, D								
	1.00	B, D								
	1.50	B, D								
3/8					2.00					
					2.10	OBSTRUCTION (probable rock)			Dry	
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 2.10m due to hard digging (possible bedrock).

Driller	Originator	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D				Soft grey slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of siltstone and sandstone				
	0.50	B, D, ES			Firm, mottled Brown grey orange slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of flagstone					
	1.00	B, D, ES			Firm locally Soft greyish blue slightly sandy gravelly SILT with medium cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone, and mudstone. Angular and subangular cobbles of siltstone and mudstone					
	1.50	B, D								
3/8					1.90 2.00	OBSTRUCTION (probable rock)		Dry		
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 2.00m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.00m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Brown sandy clayey TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.50	B, D, ES			0.80	Firm, locally stiff brownish grey slightly gravelly sandy CLAY with occasional rootlets. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone and sandstone				
	0.90	B, D, ES			1.00	Firm to stiff mottled orange brown and grey slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone and sandstone. Cobbles are subangular of siltstone OBSTRUCTION (probable rock) END OF TRIAL PIT				
2/8				1.10						

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com
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Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Light brown sandy clayey TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.50	B, D			0.80	Firm slightly gravelly sandy CLAY with rare rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone				
	0.80	B			1.10	Firm, locally stiff orange brown slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular and subangular siltstone and mudstone.				
	1.00	D		1.20						
	2/8					OBSTRUCTION (probable rock - siltstone) END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Brown sandy clayey TOPSOIL with rootlets. Sand is fine to coarse				
	0.50	B, D			0.80	Firm, locally stiff orange brown slightly gravelly sandy CLAY with low cobble content and rare rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone and mudstone				
	0.70	B	HV at 0.70m I=71kPa		1.10	Stiff, locally firm greyish brown slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone and mudstone				
	0.80	D			1.20	OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.20m.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.20	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and mudstone				
	0.50	B, D			0.60	Firm, locally soft orange brown slightly gravelly sandy CLAY with low cobble content and rare rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone and mudstone				
	0.70	B			0.90	Stiff, locally firm greyish brown slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone and mudstone <u>OBSTRUCTION (probable rock)</u> END OF TRIAL PIT				
	0.80	D		1.00						
2/8										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.90m.
 Trial pit was terminated at a depth of 1.00m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.00	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular and subrounded of sandstone and siltstone.				
	0.30	B								
	0.50	D								
	0.50		HV at 0.50m I=123 R=28kPa			Soft, mottled Brownish-orange grey slightly gravelly sandy CLAY with low cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of sandstone and siltstone				
	0.80	B								
	1.00	B, D								
	1.20		HV at 1.20m I=124 R=27kPa			Soft locally firm greyish blue locally orange slightly gravelly sandy SILT with fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of sandstone and siltstone				
1.50	D									
3/8										
						1.60				
						1.70				
						OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.70m due to scheduled depth.
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D				Brown slightly gravelly sandy silty TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltsone and sandstone				
	0.30	B								
	0.50	D				Soft, mottled Brownish-orange grey slightly gravelly sandy SILT with low cobbles. Sand is fine to coarse. gravel is fine to coarse, angular to subrounded various lithologies including sandstone, siltstone and mudstone.				
	0.60	B								
	0.70	D				Angular to subrounded cobbles of siltsone and sandstone				
3/8	0.85					OBSTRUCTION (probable rock)				
END OF TRIAL PIT										

HV at 0.85m I=103 R=20kPa

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.80m.
 Trial pit was terminated at a depth of 0.85m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water				Struck 0.80	Rose To	Time(mins)	Cut Off	RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
Chk & App	Status PRELIM										

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Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and sandstone				
	0.50	B, D	HV at 0.50m I=39 R=16kPa			Soft, locally firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobbles and minor rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of siltstone and sandstone				
	1.00	B, D				Soft, locally firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobbles and low boulders. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular to subrounded cobbles of siltstone and sandstone. Subrounded boulders of sandstone roughly 600mm				
	1.20	B, D	HV at 1.20m I=52 R=22kPa							
	1.50	B, D				Firm, locally soft greyish blue slightly sandy gravelly CLAY with medium cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Subangular and subrounded cobbles of siltstone and sandstone				
3/8	2.00					OBSTRUCTION (probable rock) END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 2.00m.
 Trial pit was terminated at a depth of 2.00m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 2.00	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
3/8 2023	0.00	B, D				Dark brown slightly sandy silty TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.40	B	HV at 0.50m I=43 R=11kPa	0.40	Soft, locally firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Angular cobbles of siltstone					
	0.50	D								
	0.70	B								
	0.90	D								
1.00										
3/8	1.10				OBSTRUCTION (probable rock)					
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
9/8 2023	0.00	B, D		HV at 0.62m I=62 R=17kPa	0.30	Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone		▼		
	0.50 0.62	B, D, ES			0.90	Firm, mottled brownish-orange grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	1.00	B, D, ES			1.30 1.40	Soft, locally firm greyish blue slightly gravelly sandy SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, mudstone, siltstone and granite. Cobbles are angular to subrounded of siltstone and mudstone				
9/8										
						OBSTRUCTION (Probable rock) END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.60m.
 Trial pit was terminated at a depth of 1.40m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 0.60	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
9/8 2023	0.00	B, D			0.20	Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	0.20	B								
	0.50	B				Soft to firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular and subrounded of siltstone. Cobbles are angular of siltstone. Boulders are subrounded up to 1000mm				
	1.00	B, D			1.00					
	1.50	B, D			1.50	Soft, locally firm stiff grey slightly sandy gravelly SILT with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular and subrounded of siltstone				
	2.00	B, D								
9/8	2.50	B, D				Firm, locally stiff grey slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular and subrounded of siltstone. Cobbles are angular of siltstone				
					3.00	END OF TRIAL PIT		Dry		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 3.00 due to reaching scheduled depth.
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
9/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded of sandstone and siltstone		Dry		
	0.30	B								
	0.40	D								
	0.50	B, D								
	0.60	D								
9/8	0.60		HV at 0.60m I=110 R=45kPa		0.70	Soft, locally firm greyish brown slightly gravelly sandy CLAY with low cobble content and minor rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular and subrounded of siltstone. Angular cobbles of siltstone				
	0.80				0.80	OBSTRUCTION (Probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill		
		Type	Result						Symbol	Depth	
9/8 2023	0.00	B, D				Brown, slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, subrounded of sandstone					
	0.30	B, B									
	0.50	D									
9/8					0.60	Soft, locally firm greyish brown slightly gravelly sandy SILT with low cobble content and minor rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone. Angular cobbles of siltstone					
					0.70	OBSTRUCTION (Probable rock)					
						END OF TRIAL PIT					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.60m.
 Trial pit was terminated at a depth of 0.70m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 0.60	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
7/8 2023	0.00	B, D				Brown slightly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse				
	0.30	B				Soft, locally firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone. Cobbles are angular of siltstone				
	0.40	D								
	0.50	B, ES								
	0.60	D								
7/8						OBSTRUCTION (Probable rock - siltstone)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
7/8 2023	0.00	B, D								
	0.20	B				Brown locally orange slightly sandy slightly gravelly clayey TOPSOIL with rootlets. Sand is fine to coarse				
	0.30	B				Soft, mottled brownish-orange grey slightly gravelly sandy CLAY with minor rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone				
	0.40	D								
	0.50	B								
0.60	ES									
7/8		D								
					0.70					
					0.80	OBSTRUCTION (Probable rock - siltstone)		Dry		
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:41:58 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location:

Orientation: Vertical

Equipment: 13T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
7/8 2023	0.00	B, D				Brown sandy silty TOPSOIL with low cobble content and rootlets. Sand is fine to coarse. Cobbles are angular of siltstone		Dry		
	0.30	B				Soft brownish grey slightly gravelly sandy SILT with medium cobble content and minor rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of sandstone and siltstone. Cobbles are angular and				
	0.40	D, ES				subangular of siltstone				
7/8						OBSTRUCTION (Probable rock - siltstone)				
						END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.70m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
 Sheet 1 of 1
 Scale 1:50

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Brown sandy clayey TOPSOIL with rootlets and low cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone				
	0.50	B, D				Firm to stiff slightly gravelly sandy CLAY with low cobble content and rare rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular to subrounded of siltstone and mudstone				
	0.80	B			0.80					
	1.00	D			1.10	Firm to stiff slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular to subrounded of siltstone and mudstone				
2/8					1.20	OBSTRUCTION (probable rock)				
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.10m.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.10	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:41:59 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: Orientation: Vertical Equipment: 14T Tracked Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
2/8 2023	0.00	B, D			0.30	Brown sandy clayey TOPSOIL with rootlets. Sand is fine to coarse		Dry		
	0.50	B, D			0.70	Firm, locally stiff orange brown slightly gravelly sandy CLAY with low cobble content and rare rootlets. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone and mudstone				
	0.70	B			0.85	OBSTRUCTION (probable rock)				
	0.80	D				END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.85m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: E 316114.9
N 957141.7

Orientation: Vertical

Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		76.85						
	0.30	B		76.55	0.30	Brown slightly clayey slightly gravelly sandy TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and sandstone				
	0.50	D, ES		76.15	0.70	Brown slightly clayey slightly gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone. Cobbles are angular of siltstone				
				76.05	0.80	OBSTRUCTION (Probable rock)				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP45

Trial Pit to 0.60m

Location: E 316052.1
N 957100.6

Orientation: Vertical

Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		77.42		Brown slightly clayey slightly gravelly sandy TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and sandstone. Brown slightly clayey slightly gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular of siltstone OBSTRUCTION (Probable rock) END OF TRIAL PIT		Dry		
	0.30	B		77.12	0.30					
	0.40	D		76.92	0.50					
10/8				76.82	0.60					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.60m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:42:01 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: E 315926.5
 N 957018.6

Orientation: Vertical

Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		79.84		Brown slightly gravelly clayey sandy TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and mudstone.		Dry		
	0.30	B		79.54	0.30					
	0.50	D, ES				Brown slightly clayey slightly gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including mudstone, sandstone, siltstone and granite. Angular to subrounded cobbles of siltstone and granite.				
	0.80	D		79.09	0.75					
10/8				79.04	0.80	Firm greyish-orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to rounded of sandstone and siltstone.		Dry		
				78.94	0.90					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D				Brown slightly gravely sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular to rounded of sandstone and siltstone				
	0.30	B								
	0.50	B, D			Soft, locally firm greyish blue slightly gravely sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone					
	0.70	D								
10/8	0.80				OBSTRUCTION (Probable rock)					
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.80m.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck 0.80	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
16/8 2023	0.30					Brown slightly gravelly slightly sandy clayey TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including mudstone, sandstone and siltstone				
	0.50	B, D, ES				Soft to firm mottled brown, orange and grey slightly gravelly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone. Cobbles are angular and subangular of siltstone				
	0.80	B								
	1.00	D, ES								
					1.20	OBSTRUCTION (Probable rock)				
----- END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout the investigation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible rockhead).

Driller FP	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 1.80m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
16/8 2023	0.30	B			0.30	Brown slightly gravelly slightly sandy clayey TOPSOIL. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including mudstone, sandstone and siltstone				
	0.50	D, ES			0.80	Soft to firm mottled brown, orange and grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone				
					1.00	OBSTRUCTION (Probable rock)				
						----- END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout the investigation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.00m due to hard digging (possible rockhead).

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 2.20m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
16/8 2023	0.00	B, D								
	0.20	B			0.20	Brown slightly sandy slightly gravelly silty TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and sandstone				
	0.50	B, D				Soft mottled brown, orange and grey slightly gravelly sandy SILT with low cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone and mudstone. Cobbles are angular and subangular of siltstone up to 800mm				
	0.80	D			0.80					
					0.90	OBSTRUCTION (probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water not encountered.
 Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:42:06 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
14/8 2023	0.00	B				Brown slightly gravelly sandy clayey TOPSOIL with low cobble content and roots. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone. Cobbles are angular to subangular of siltstone				
	0.40	B			Firm mottled brown, orange and grey slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and sandstone. Cobbles are angular to subangular of sandstone and siltstone					
	0.50	D								
	0.70	D								
	0.80					OBSTRUCTION (Probable rock)		END OF TRIAL PIT		

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too gravelly for hand vane tests.

Driller FP	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
14/8 2023	0.00	B, D								
	0.30	B, D			0.30	Brown slightly gravelly sandy clayey TOPSOIL with roots. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of siltstone and quartzite				
	0.60	B, D	HV at 0.60m I=158 R=12kPa		0.80	Firm locally soft mottled brownish-orange grey slightly gravelly sandy CLAY with low cobble content. Sand is fine to coarse angular to subrounded of various lithologies including granite, sandstone, mudstone and siltstone. cobbles are angular to subrounded of siltstone and granite				
					0.90	OBSTRUCTION (Probable rock)				
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).

Driller FP	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D			0.20	Brown slightly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse.				
	0.20	B			0.60	Soft locally firm mottled brownish-orange grey slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone.				
	0.50	D, ES			1.10	Soft to firm greyish blue slightly sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone. Cobbles are angular of siltstone.				
	0.60	B			1.20	OBSTRUCTION (Probable rock)				
10/8	1.00	D								
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.20m.
 Trial pit was terminated at a depth of 1.20m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck 1.20	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 2.00m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
11/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	0.30	B, D				Firm locally soft mottled brownish-orange grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
11/8	0.60	D	HV at 0.60m I=42 R=10kPa			OBSTRUCTION (Probable rock)				
	0.70					... Rock face is dipping approx 10°-20° to NNE				
	0.80					END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water				RAEBURN	Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: E 315958.0
N 957178.8

Orientation: Vertical

Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		75.82		Brown slightly gravelly slightly clayey sandy TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded, angular to subrounded of siltstone and sandstone				
	0.30	B		75.52	0.30					
	0.50	D				Firm locally soft slightly gravelly sandy CLAY with low cobbles and low boulders. Sand is fine to coarse, subangular to subrounded of various lithologies including sandstone, siltstone and granite. Cobbles are angular to subrounded				
	0.60	B								
	1.00	B, D		74.82	1.00	Soft mottled brownish-orange grey slightly sandy gravelly CLAY with low cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone. Cobbles are angular of siltstone				
1.50	D		74.32 74.22	1.50 1.60						
						OBSTRUCTION (Probable rock)				
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.60m due to hard digging (possible bedrock).
 Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: E 315960.8
N 957279.1

Orientation: Vertical

Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		73.81		Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone		Dry		
	0.30	B		73.51	0.30					
	0.50	D				Soft, locally firm mottled brownish-orange grey slightly gravelly sandy CLAY with low cobble content and minor rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular and subrounded of sandstone and siltstone. Cobbles are angular of siltstone				
	0.60	B								
	1.00	B, D		72.81	1.00	Firm, locally soft brownish-orange slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, subangular and subrounded of sandstone and siltstone. Cobbles are angular of siltstone				
1.20	D		72.61	1.20						
			72.51	1.30						
10/8						OBSTRUCTION (Probable tock)				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 1.30m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: E 315890.7
N 957236.4

Orientation: Vertical

Equipment: 13T Tracked Excavator

Width - 1.80m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D				Brown slightly gravely sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular and subrounded of sandstone and siltstone.		Dry		
	0.30	B				Soft, locally firm mottled brownish-orange grey slightly gravely sandy CLAY with minor rootlets. Sand is fine to coarse. Gravel is fine to coarse, subangular and subrounded of sandstone and siltstone.				
	0.50	D								
	0.60	B								
10/8	1.00	D				Soft, mottled brownish-orange grey slightly sandy gravely CLAY with low cobbles. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone. Cobbles are angular of siltstone.		Dry		
	1.10					OBSTRUCTION (Probable rock)				
END OF TRIAL PIT										

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was not encountered.
Trial pit was terminated at a depth of 1.10m due to hard digging (possible bedrock).
Estimate of strength is based on field examination only - material too sandy for hand vane tests.

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Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.80m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
11/8 2023	0.00	B, D				Brown slightly clayey slightly gravelly sandy TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	0.30	B, D								
	0.50	ES			Brownish orange slightly clayey gravelly fine to coarse SAND low cobble content. Gravel is fine to coarse, angular to subrounded of sandstone and allstone, Cobbles are angular and subangular of siltstone					
	0.60	B, D								
	1.00	B, D, ES								
11/8					1.20					
					1.30	OBSTRUCTION (Probable rock)				
					bedrock dipping approximately 10°-20° to NNE END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 2.30m.
Trial pit was terminated at a depth of 1.30m due to hard digging (possible bedrock).
Thermal resistivity testing carried out at a depth of 1.00m.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.90m Length - 3.00m


Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
11/8 2023	0.00	B, D				Brown slightly slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	0.30	B, D				Firm to stiff brown grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of sandstone and siltstone				
	0.60	B, D				Firm to soft mottled brownish-orange grey slightly sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone. Cobbles are an angular and subangular of siltstone.				
	1.00	B, D				Soft to firm grey blue slightly sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular and subangular of siltstone. Cobbles are angular and subangular of siltstone.				
	1.20					OBSTRUCTION (Probable rock)		1.20		
11/8	1.30					bedrock dipping approximately 10°-20° to NNE END OF TRIAL PIT				

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.20m.
 Trial pit was terminated at a depth of 1.30m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
		1.20	1.25	20	
Chk & App	Status				
	PRELIM				

Fig No: B
 Sheet 1 of 1
 Scale 1:50



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Location:

Orientation: Vertical

Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
14/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with roots. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone Soft mottled brown, orange and grey slightly gravelly slightly sandy CLAY with low cobble content. Sand is fine to coarse angular to subrounded of various lithologies including granite, sandstone, mudstone and siltstone. cobbles are angular to subrounded of siltstone and granite OBSTRUCTION (Probable rock) END OF TRIAL PIT				
	0.30	B, D								
	0.50		HV at 0.50m I=62 R=13kPa							
	0.70	B, D								
	0.80									

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not observed.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).

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Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
15/8 2023	0.00	B, D				Brown gravelly slightly sandy clayey TOPSOIL with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone. Cobbles are angular and subangular of siltstone Soft mottled brown, orange and grey slightly sandy gravelly CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone. Cobbles are angular and subangular of siltstone. (Possible reworked quarry waste) <u>OSTRUCTION (probable rock)</u> END OF TRIAL PIT				
	0.30	B								
	0.50	D, ES								
	0.70	D								
	0.90									

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 0.70m; slow seepage.
 Trial pit was terminated at a depth of 0.90m due to hard digging (possible bedrock).

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Style: TRIALPIT File: P:\GINTW\PROJECTS\26470.GPJ+44 (0)1698 710999 Printed: 21/08/2023 15:42:14 Raeburn Drilling and Geotechnical, Whistleberry Rd, Hamilton ML3 0HP Tel: 01698-711177 E-mail: enquiries@raeburndrilling.com

RAEBURN

DRILLING & GEOTECHNICAL LTD

Site: LT407- SPITTAL CONVERTOR SITE GROUND INVESTIGATION

Client: SSEN Transmission
Engineer: Jacobs UK Ltd

Contract No: 26470

Trial Pit No.
TP61

Location: E 315873.1
N 957329.4

Orientation: Vertical

Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
10/8 2023	0.00	B, D		71.59						
	0.30	B								
	0.50	D								
	0.80	B								
	1.00	D								
	1.20	B								
	1.50	D								
	1.60	B								
	2.00	B, D								
	2.40	D								

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 2.30m.
Trial pit was terminated at a depth of 2.40m due to hard digging (possible bedrock).

Driller	Originator FP	Ground-water			
		Struck	Rose To	Time(mins)	Cut Off
Chk & App	Status PRELIM				



Fig No:
B
Sheet 1 of 1
Scale 1:50

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 2.00m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
11/8 2023	0.00	B, D				Brown slightly gravelly sandy clayey TOPSOIL with rootlets. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, mudstone and siltstone				
	0.30	B				Firm locally soft mottled brownish-orange grey slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angu				
	0.50	D, ES								
	0.70	B								
	1.00	B, D, ES								
11/8	1.30	D				Firm locally soft grey blue slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subsamgual		1.35		
	1.40					OBSTRUCTION (Probable rock) END OF TRIAL PIT				

Remarks:

- Trial pit CAT scanned prior to excavation to check for services.
- The walls of the pit stood vertical throughout excavation.
- Ground-water seepage was encountered at a depth of 1.35m.
- Trial pit was terminated at a depth of 1.40m due to hard digging (possible bedrock).
- Thermal resistivity testing carried out at a depth of 1.10m.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
14/8 2023	0.00	B, D				MADE GROUND (brown gravelly slightly sandy slightly clayey topsoil with low cobble content and roots. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone, mudstone and brick fragments. Cobbles are angular to subrounded of siltstone, sandstone and brick)				
	0.30	B								
	0.50	D				MADE GROUND (brownish orange sandy slightly silty fine to coarse angular to subrounded gravel with low cobble content. Sand is fine to coarse. Gravel is comprised of various lithologies including sandstone, siltstone, mudstone and brick fragments. Cobbles are angular to subrounded of siltstone and sandstone)				
	0.60	B								
	1.00	B, D				Soft brown slightly sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular to subrounded of sandstone and siltstone (Possible reworked material)				
	1.50	B, D								
	2.00	B, D								
	2.50	B, D								
3.00	D									
----- END OF TRIAL PIT -----										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not observed.
 Trial pit was terminated at a depth of 3.00m due to reaching scheduled depth.

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
14/8 2023	0.00	B, D								
	0.30	B			0.30	Brown slightly gravelly slightly clayey sandy TOPSOIL with roots. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone				
	0.50	D								
	0.60	B				Brownish orange gravelly slightly clayey SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, siltstone and mudstone. Cobbles are angular and subangular of siltstone and mudstone				
	0.90	D			0.90					
					1.00	OBSTRUCTION (Probable rock)				
END OF TRIAL PIT										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not observed.
 Trial pit was terminated at a depth of 1.00m due to hard digging (possible bedrock).
 Thermal resistivity testing carried out at a depth of 0.80m.

Driller FP	Originator FP	Ground-water				Struck	Rose To	Time(mins)	Cut Off		Fig No: B Sheet 1 of 1 Scale 1:50
Chk & App	Status PRELIM										

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Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
15/8 2023	0.00	B, D				Brown gravelly slightly sandy clayey TOPSOIL with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of siltstone. Cobbles are angular and subangular of siltstone Soft mottled brown, orange and grey slightly sandy gravelly CLAY with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone. Cobbles are angular and subangular of siltstone. Boulders are angular and subangular of siltstone up to 850mm (Possible reworked quarry waste) ROOSTRUCTION (probable rock) END OF TRIAL PIT				
	0.30	B								
	0.50	D, ES								
	0.70	D								
	0.80									

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
15/8 2023	0.00	B, D				Brown sandy silty TOPSOIL with low cobble content and rootlets. Sand is fine to coarse. Cobbles are angular of siltstone				
	0.30	B								
	0.50	D, ES			Soft brown slightly gravelly slightly sandy SILT with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone. Cobbles are angular and subangular of siltstone. Boulders are angular of siltstone up to 700mm. (Possible reworked quarry waste)					
	0.60	B								
	1.00	B, D, ES								
	1.50	B, D, ES								
2.00	D			2.10	END OF TRIAL PIT					

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit collapsed below 2.10m.
 Ground-water was encountered at a depth of 2.10m and rose to 2.05m; steady seepage.
 Trial pit was terminated at a depth of 2.10m due to collapse.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location:

Orientation: Vertical

Equipment:

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill		
		Type	Result						Symbol	Depth	
15/8 2023	0.00	B, D				Brown sandy silty TOPSOIL with low cobble content and rootlets. Sand is fine to coarse. Cobbles are angular of siltstone					
	0.30	B									
	0.50	D, ES									
	0.60	B				Soft brown slightly gravelly slightly sandy SILT with medium cobble content and low boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mudstone and siltstone. Cobbles are angular and subangular of siltstone. Boulders are angular of siltstone up to 850mm. (Possible reworked quarry waste)					
	1.00	B, D, ES									
	1.50	B, D, ES									
	2.00	D									
					2.20	----- END OF TRIAL PIT -----					

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit collapsed above 2.20m.
Ground-water was encountered at a depth of 2.10m; steady influx.
Trial pit was terminated at a depth of 2.20m due to collapse.

Driller	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill			
		Type	Result						Symbol	Depth		
15/8 2023	0.00	B, D				Brown sandy silty TOPSOIL with low cobble content and rootlets. Sand is fine to coarse. Cobbles are angular of siltstone						
	0.30	B, D				Soft brown slightly gravelly slightly sandy CLAY with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse angular and subangular of mudstone and siltstone. Cobbels are angular and subangular of siltstone. (Possible reworked quarry waste)						
	0.50	ES										
	0.70	D										
	0.80					OBSTRUCTION (probable rock)						
						END OF TRIAL PIT						

Remarks:

Trial pit CAT scanned prior to excavation to check for services.
The walls of the pit stood vertical throughout excavation.
Ground-water was encountered at a depth of 0.70m; slow seepage.
Trial pit was terminated at a depth of 0.80m due to hard digging (possible bedrock).

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Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 3.00m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
15/8 2023	0.00	B, D				Soft brown gravelly slightly sandy TOPSOIL with low cobble content and roots. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of sandstone and siltstone. Cobbles are angular and subangular of siltstone				
	0.30	B								
	0.50	D, ES								
	0.60	B								
	1.00	B, D, ES								
	1.50	B, D, ES								
					1.60					
					1.90	Brownish grey gravelly sandy slightly clayey angular and subangular COBBLES of siltstone and mudstone. Sand is fine to coarse. Gravel is fine to coarse angular to subangular of mudstone and siltstone (Possible quarry waste)				
----- END OF TRIAL PIT -----										

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit collapsed below 0.30m.
 Ground-water was not encountered.
 Trial pit was terminated at a depth of 1.90m due to collapse.

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						

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Location: Orientation: Vertical Equipment: 13T Tracked Mechanical Excavator

Width - 1.40m Length - 2.50m

Progress	Sample Depth	Samples and Tests		Level (m)	Depth	Description of Strata	Legend	Water Depth	Backfill	
		Type	Result						Symbol	Depth
16/8 2023	0.00	B, D				MADE GROUND (brown slightly sandy slightly gravelly silty topsoil with low cobble content, low boulder content, plastic tubing, plastic bags, ceramics and glass. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subangular of mudstone and siltstone. Boulders are angular of siltstone up to 800mm)				
	0.50	B, D, ES								
	1.00	B, D, ES			MADE GROUND (soft brown slightly sandy slightly gravelly silt with low cobble content, low boulder content, local pockets of dark brown plastic amorphous peat (H7B2), ceramics, plastic tubes, plastic bags and coal tar fragments. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of various lithologies including sandstone, mudstone and siltstone. Cobbles are angular and subangular of mudstone and siltstone. Boulders are angular of siltstone up to 900mm)					
	1.50	B, D, ES								
	1.90	V			...at 1.90m: strong hydrocarbon smell from possible coal tar; dissapating after 5 minutes					
	2.00	B, D, ES								
	2.10	B								
2.50	D, ES				...between 2.00m and 2.50m: locally passing to a soft to firm dark brown slightly sandy slightly gravelly organic CLAY with roots and rootlets. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded of siltstone and mudstone					
					OBSTRUCTION (probable rock)					
						END OF TRIAL PIT				

Remarks:
 Trial pit CAT scanned prior to excavation to check for services.
 The walls of the pit stood vertical throughout excavation.
 Ground-water was encountered at a depth of 1.90m; slow seepage.
 Trial pit was terminated at a depth of 2.60m due to hard digging (possible bedrock).

Driller FP	Originator FP	Ground-water					Fig No: B Sheet 1 of 1 Scale 1:50
		Struck	Rose To	Time(mins)	Cut Off		
Chk & App	Status PRELIM						