



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HB-BH06-C

Scale: NTS

Drawing Number: 3/6



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HB-BH06-C

Scale: NTS

Drawing Number: 4/6



Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HB-BH06-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 5/6
Drawn:	MW	Checked:			

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Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HB-BH06-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 6/6
Drawn:	MW	Checked:			

Project: Heybridge Converter Station
Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Page: 1 of 5
Project No: IS360318 -1

Contractor: Tasmanian Drilling	Easting: 414163.8 m	Elevation: 5.43 m	Started: 08/02/2022
Plant: Hanjin D&B 8-D	Northing: 5452650.9 m	Datum: AHD	Finished: 09/02/2022
Logged By: MW	Checked By: AC	Grid: GDA2020	Inclination: -90°
			Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE							
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
HA	[Penetration Diagram]	[Groundwater Levels Diagram]	SPT N=5 2,2,3	5	0.5	[Graphic Log]	SAND: fine to medium grained, dark grey black; trace silt; with rootlets <i>0.10m: colour becoming pale yellow brown, trace silt</i> <i>0.50m: reduced silt content</i>	M	L	[DCP Scale]	MARINE DEPOSITS
				4	1.0						
				3	1.5						
				2	2.0						
				3	2.5						
				3	3.0						
				2	3.5						
				2	4.0						
				1	4.5						
				0	5.0						
0	5.5										
0	6.0										
-1	6.5										
-1	7.0										
-2	7.5										
Continued as cored hole from 3.50m											

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Project: Heybridge Converter Station

Page: 3 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414163.8 m

Elevation: 5.43 m

Started: 08/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452650.9 m

Datum: AHD

Finished: 09/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General	
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, major defect type)	Weathering	Estimated Strength Is(50) (MPa) □ - Axial ○ - Diametral	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)
HQ3	20	-3	8.5	[X-pattern]	QUARTZWACKE: fine grained, grey with minor yellow staining; medium bedded; slightly weathered; high to extremely high strength	FR	[Strength scale]	a=5.00	[RQD scale]	[TCR scale]	[Defect spacing scale]	BP, 40°, PR, RF, CN BP, 40°, PR, RF, CN, x4 BP, 40°, PR, RF, CN BP, 40°, PR, RF, CN BP, 40°, PR, RF, CN JT, 5°, PR, RF, CN JT, 20°, PR, RF, CN
			9.0		JT, 90°, PR, RF, CN JT, 20°, PR, RF, CN							
			9.5		BP, 30°, PR, RF, CN, x5							
			10.0		JT, 45°, IR, RF, CN JT, 5°, PR, RF, CN JT, 45°, PR, RF, CN JT, 70°, PR, RF, CN JT, 20°, UN, RF, CN BP, 30°, PR, RF, CN							
			10.5		JT, 20°, UN, RF, Filled, (sand) JT, 45°, IR, RF, CN JT, 30°, UN, RF, VNR, (clay) BP, 40°, PR, RF, CN, disturbed by drilling							
			11.0		FZ, disturbed by drilling BP, 30°, UN, RF, VNR, (clay)							
			11.5		BP, 30°, PR, RF, SN, (Fe), x6 JT, 30°, UN, RF, CN JT, 60°, PR, RF, CN BP							
			12.0		BP, 40°, PR, RF, CN, x4 BP, 40°, PR, RF, CN FZ, disturbed by drilling JT, 45°, PR, RF, CN JT, 30°, UN, RF, CN JT, 50°, PR, RF, CN, subverticle JT, 20°, UN, RF, CN JT, 30°, UN, RF, CN JT, 20°, PR, RF, CN BP, 45°, PR, RF, CN							
			12.5		JT, 30°, PR, RF, CN BP, 40°, PR, RF, CN JT, 30°, PR, RF, Filled, (sand and gravel)							
			13.0		JT, 30°, PR, RF, CN BP, 30°, PR, RF, CN, x4 FZ, disturbed by drilling JT, 60°, PR, RF, SN, (Fe) JT, 20°, IR, RF, CN JT, 30°, PR, RF, CN JT, 25°, PR, RF, CN BP, 40°, PR, RF, SN, disturbed by drilling							
40		-8	13.5	12.96m: minor yellow staining	SW	[Strength scale]	a=12.00	[RQD scale]	[TCR scale]	[Defect spacing scale]	[Defect spacing scale]	JT, 70°, PR, RF, SN, (Fe) BP, 30°, PR, RF, CN, x4 JT, 15°, IR, RF, CN, x3 JT, 10°, UN, RF, CN BP, 30°, PR, RF, CN JT, 45°, UN, RF, CN JT, 60°, UN, RF, CN
			13.70m: reduced yellow staining	JT, 30°, PR, RF, CN, disturbed by drilling								
			14.0	14.10m: calcite/carbonate deposits								JT, 70°, PR, RF, SN, (Fe) BP, 30°, PR, RF, CN, x4 JT, 15°, IR, RF, CN, x3 JT, 10°, UN, RF, CN BP, 30°, PR, RF, CN JT, 45°, UN, RF, CN JT, 60°, UN, RF, CN
			14.5	14.70m: minor yellow staining								BP, 40°, PR, RF, CN, disturbed by drilling JT, 60°, IR, RF, CN
			15.0	15.50m: colour becoming pale grey with yellow brown staining								BP, 35°, PR, RF, CN, disturbed by drilling JT, 90°, UN, RF, SN, (Fe) BP, 40°, PR, RF, CN JT, 10°, UN, RF, SN, (Fe) JT, 30°, IR, RF, SN, (Fe)
		-10	15.5	15.80m: increased yellow brown staining with minor dark brown staining	SW	[Strength scale]	[RQD scale]	[TCR scale]	[Defect spacing scale]	[Defect spacing scale]	[Defect spacing scale]	

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Project: Heybridge Converter Station

Page: 4 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414163.8 m

Elevation: 5.43 m

Started: 08/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452650.9 m

Datum: AHD

Finished: 09/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General												
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata	Weathering	Estimated Strength Is(50) (MPa)	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)	Defect descriptions and additional observations (type, inclination, planarity, roughness, coating, thickness, other)										
HQ3	40		-11	[Graphic Log: Quartzwacke]	QUARTZWACKE: fine grained, grey with minor yellow staining; medium bedded; slightly weathered; high to extremely high strength	SW	[Strength Scale]	[Point Load Scale]	34	100	[Defect Spacing Scale]	BP, 40°, PR, RF, CN SM, sand and sub-angular to angular gravel JT, 10°, UN, RF, SN, (Fe) JT, 30°, UN, RF, SN, (Fe), x2											
			-12		17.56m: quartz/calcite deposit							a=3.10	BP, 20°, PR, RF, CN, x4 BP, 30°, PR, RF, CN JT, 10°, IR, RF, CN JT, 60°, PR, RF, CN, x2 JT, 30°, PR, RF, SN, (Fe) JT, 60°, UN, RF, CN CS, 45°, sand and sub-angular to angular gravel BP, 30°, PR, RF, SN, (Fe) JT, 70°, IR, RF, SN, (Fe) JT, 60°, UN, RF, CN JT, 50°, UN, RF, CN BP, 40°, PR, RF, SN, (Fe) JT, 80°, UN, RF, CN JT, 45°, PR, RF, SN, (Fe) JT, 35°, IR, RF, SN, (Fe) JT, 5°, UN, RF, SN, (Fe) JT, 60°, UN, RF, SN, (Fe) JT, 30°, UN, RF, SN, (Fe) JT, 20°, PR, RF, SN, (Fe), x2 JT, 30°, UN, RF, SN, (Fe) JT, 35°, PR, RF, SN, (Fe) JT, 50°, PR, RF, CN JT, 30°, UN, RF, CN JT, 50°, UN, RF, Filled, (sand) JT, 10°, IR, RF, CN BP, 30°, PR, RF, CN JT, 40°, IR, RF, Filled, sand, sub-angular to sub-rounded gravel JT, 10°, IR, RF, CN JT, 70°, PR, RF, CN JT, 20°, UN, RF, CN BP, 30°, UN, RF, CN, x4 JT, 10°, UN, RF, SN, (Fe) disturbed by drilling										
			-13		CORELOSS								QUARTZWACKE: fine grained, pale grey with minor yellow staining and dark brown streaking; thinly to medium bedded; slightly weathered; very high strength	SW	[Strength Scale]	[Point Load Scale]	24	92	21	100	[Defect Spacing Scale]	BP, 30°, UN, RF, CN, x11, 30, CN 60°, IR, RF, CN BP, 40°, PR, RF, CN JT, 45°, PR, RF, CN BP, 60°, PR, RF, CN	
			-14																			19.0	20.20m: very minor yellow staining
			-15		20.5								20.85m: highly bedded, colour becoming dark grey	FR	[Strength Scale]	[Point Load Scale]	21	100	0	100	[Defect Spacing Scale]	BP, 30°, UN, RF, CN, x11, 30, CN 60°, IR, RF, CN BP, 40°, PR, RF, CN JT, 45°, PR, RF, CN BP, 60°, PR, RF, CN	
			-16		21.0								CORELOSS									QUARTZWACKE: fine grained, pale grey and white; thinly to medium bedded; fresh; medium to high strength 22.35m: calcite/carbonate seam colour becoming dark grey with minor white streaking	FR
			-17		22.5									MUDSTONE: fine grained, dark grey and white streaking, thinly to medium bedded; medium strength 22.90m: colour becoming black	FR	[Strength Scale]	[Point Load Scale]	10	86	0	100		
			-18		23.0								Gravelly CLAY: low plasticity, fine to medium grained, sub-angular to sub-rounded gravel, black MUDSTONE: fine grained, dark grey; laminated to very thinly bedded; fresh; medium to high strength 23.30m: colour becoming grey	FR								[Strength Scale]	[Point Load Scale]
			-18		23.5								CORELOSS		FR	[Strength Scale]	[Point Load Scale]	0	100	0	100		

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Project: Heybridge Converter Station

Page: 5 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414163.8 m

Elevation: 5.43 m

Started: 08/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452650.9 m

Datum: AHD

Finished: 09/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General	
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata	Weathering	Estimated Strength Is(50) (MPa)	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)
HQ3	40	-19	24.5	[Hatched]	MUDSTONE: fine grained, dark grey; laminated to very thinly bedded; fresh; medium to high strength <i>24.30m: colour becoming dark grey</i>	FR	[Scale]	[Scale]	[Scale]	[Scale]	[Scale]	FZ, disturbed by drilling
		-20	25.0		BP, 30°, PR, RF, CN							
		-21	25.5									BP, 30°, PR, RF, CN SM, Calcite BP, 30°, PR, RF, CN FZ, disturbed by drilling
		-22	26.0									JT, 45°, PR, RF, CN BP, 30°, PR, RF, CN BP, 30°, PR, RF, CN, x7
		-23	26.5									JT, 10°, IR, RF, CN JT, 70°, UN, RF, CN JT, 15°, UN, RF, CN BP, 20°, PR, RF, CN JT, 35°, PR, RF, CN JT, 35°, IR, RF, CN, x3
		-24	26.5	CORELOSS	MUDSTONE: fine grained, dark grey; thinly to medium bedded; fresh; high strength <i>26.70m: CaCO3/calcite seam</i>	FR	[Scale]	[Scale]	[Scale]	[Scale]	[Scale]	JT, 20°, UN, RF, CN
		-25	27.0									
		-26	27.5		<i>27.35m: CaCO3/calcite seam</i>							BP, 50°, PR, RF, CN, disturbed by drilling FZ, disturbed by drilling BP, 50°, PR, RF, CN, x8
		-27	28.0									JT, 30°, IR, RF, CN, x9
		-28	28.5									JT, 80°, IR, RF, CN
		-29	29.0									BP, 30°, PR, RF, CN JT, 80°, IR, RF, CN JT, 45°, PR, RF, CN FZ, disturbed by drilling
		-30	29.5									BP, 40°, PR, RF, CN, disturbed by drilling
		-31	30.0									BP, 40°, PR, RF, CN, x4
		-32	30.5									BP, 40°, PR, RF, CN, x9, 30-40, CN
		-33	31.0									CS, sand, fine grained, sub-angular to angular gravel
		-34	31.5									CS, sand, fine grained, sub-angular to angular gravel JT, 30°, UN, RF, CN CS, clay, fine to coarse grained sand and fine grained, sub-angular to angular gravel
		-35	31.5		Exploratory hole terminated at 30.00 m Target depth							

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Project: Heybridge Converter Station
Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

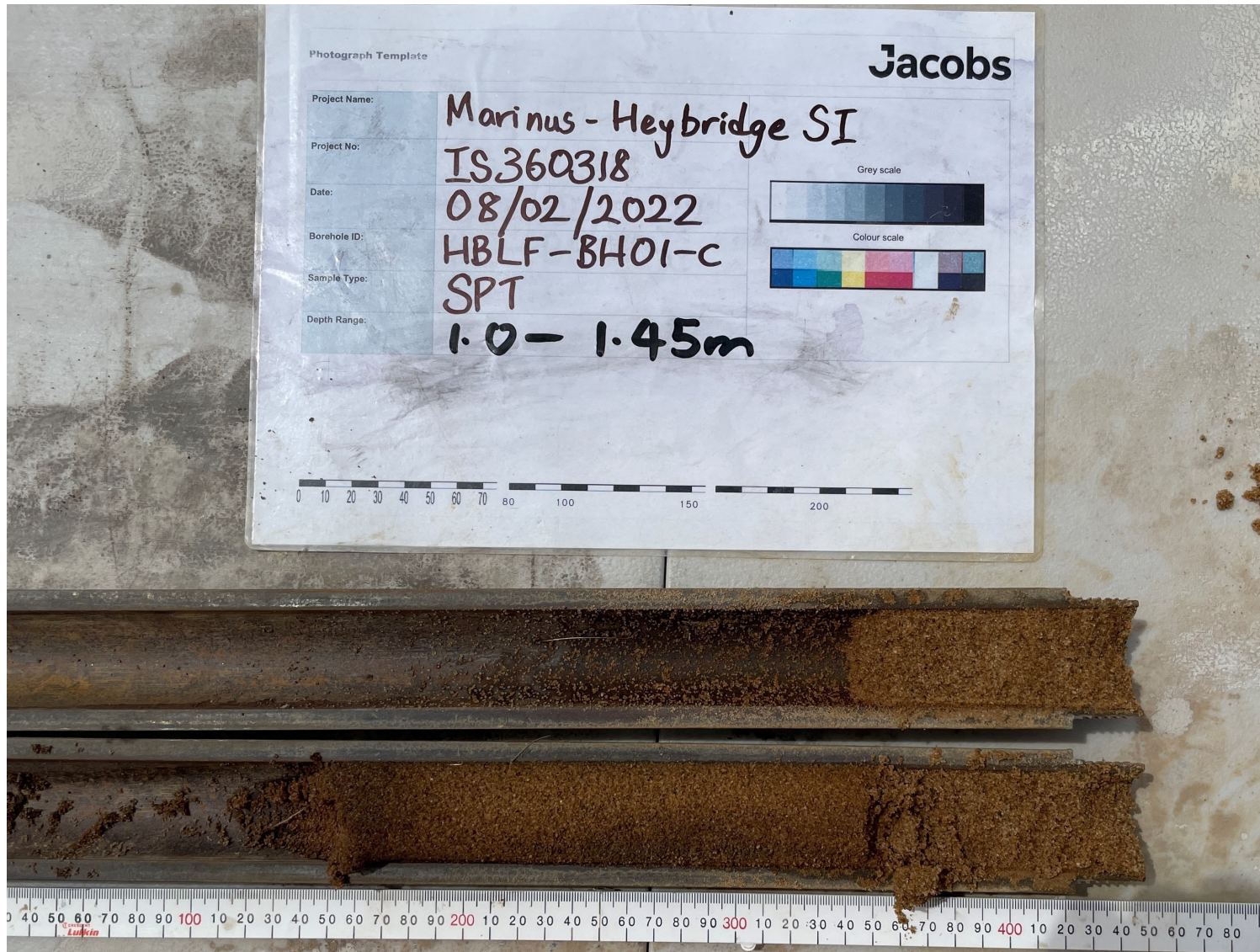
Page: 1 of 5
Project No: IS360318 -1

Contractor: Tasmanian Drilling	Easting: 414287.2 m	Elevation: 5.11 m	Started: 10/02/2022
Plant: Hanjin D&B 8-D	Northing: 5452577.0 m	Datum: AHD	Finished: 11/02/2022
Logged By: MW	Checked By: AC	Grid: GDA2020	Inclination: -90°
			Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
HA	Not Observed	SPT N=R 3, 23/20mm		5	5		Silty GRAVEL: fine to medium grained, sub-angular to angular, red brown, low plasticity silt	D-M	MD			MARINE DEPOSITS
				0.5	0.5		SAND: fine grained, yellow brown; trace silt	M	L			
				4	4		Continued as cored hole from 1.50m					
				1.5	1.5							
				2.0	2.0							
				2.5	2.5							
				3.0	3.0							
				3.5	3.5							
				4.0	4.0							
				4.5	4.5							
				5.0	5.0							
				5.5	5.5							
				6.0	6.0							
				6.5	6.5							
				7.0	7.0							
				7.5	7.5							

METHOD & SUPPORT N Natural/Existing cutting E Excavator BH Backhoe Bucket B Bulldozer R Ripper	PENETRATION No resistance ranging to refusal 	GROUNDWATER ▼ = Water level (static) ▶ = Water inflow	SAMPLES & FIELD TESTS D Disturbed Sample B Bulk Sample SPT SPT Sample U Undisturbed Sample E Enviro Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P: Peak Su R: Residual Su)	MOISTURE D = Dry M = Moist W = Wet Wp = Plastic Limit Wl = Liquid Limit	DENSITY (N-value) VL Very Loose 0 - 4 L Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100	CONSISTENCY (SU) (N-value) VS Very Soft < 12 kPa (0-2) S Soft 12 - 25 (2-4) F Firm 25 - 50 (4-8) St Stiff 50 - 100 (8-15) VSt Very Stiff 100 - 200 (15-30) H Hard > 200 kPa (>30)
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Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

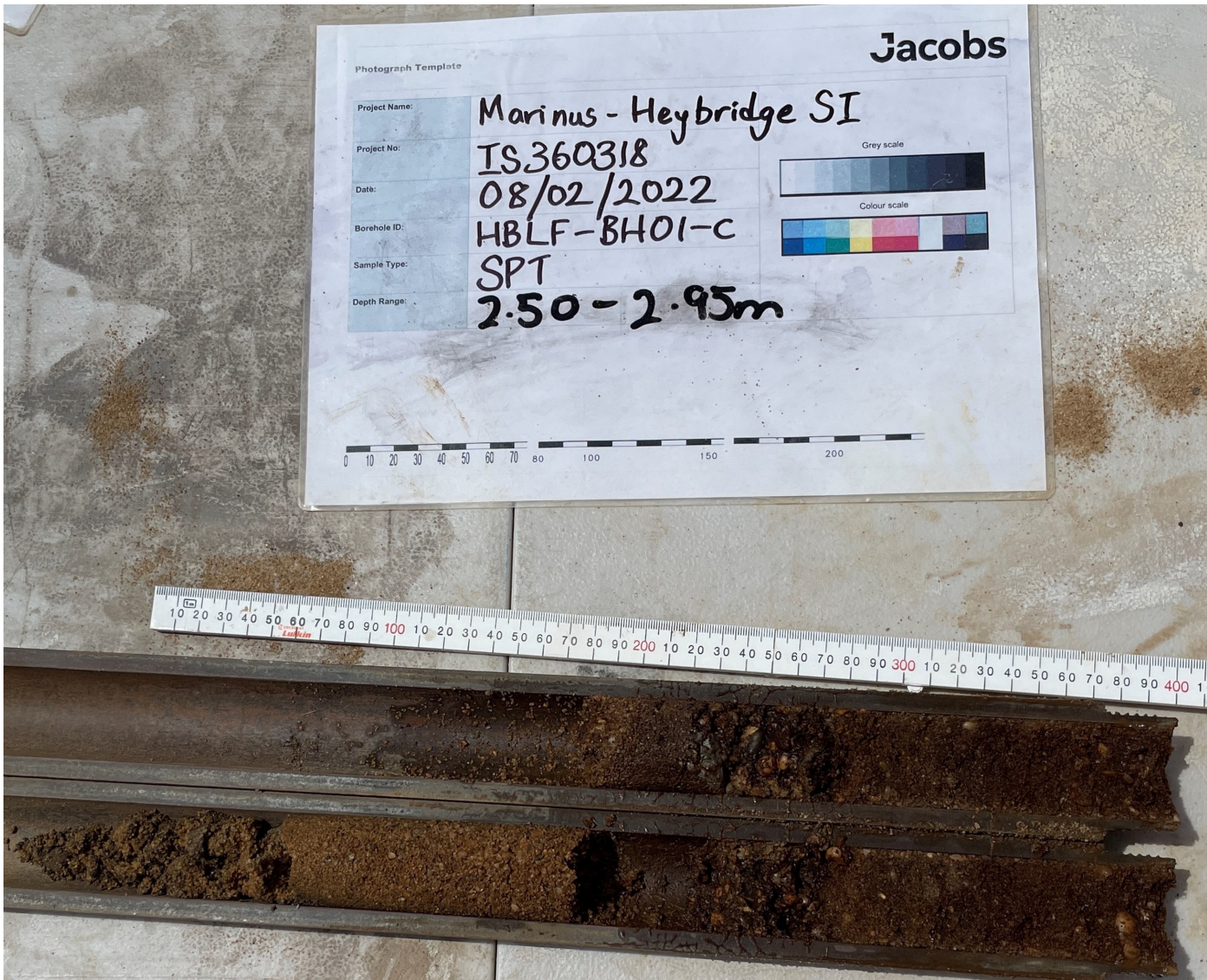
Drawn: MW

Checked:

Title: HBLF-BH01-C

Scale: NTS

Drawing Number: 1/9



Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 2/9
Drawn:	MW	Checked:			



Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 3/9
Drawn:	MW	Checked:			

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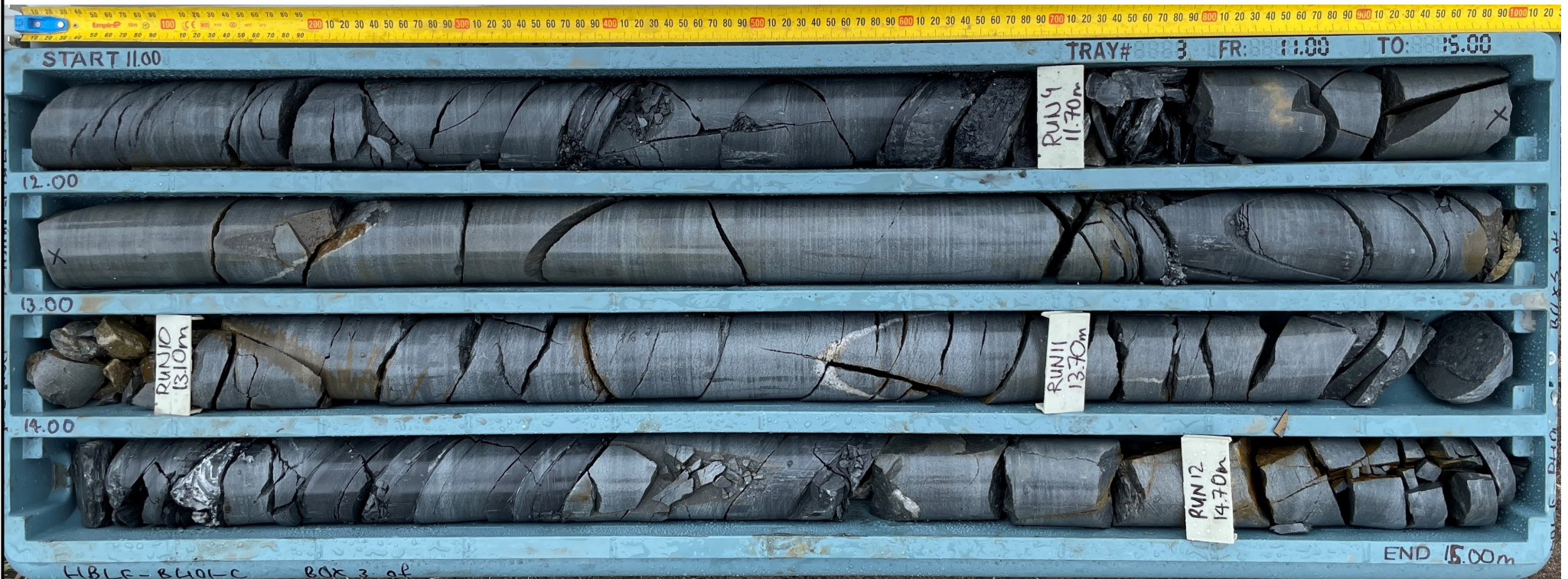


Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 4/9
Drawn:	MW	Checked:			

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Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH01-C

Scale: NTS

Drawing Number: 5/9



Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 6/9
Drawn:	MW	Checked:			

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Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 7/9
Drawn:	MW	Checked:			

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Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH01-C

Scale: NTS

Drawing Number: 8/9



Multiple

Jacobs

Client:	Tasmanian Networks		Title:	HBLF-BH01-C	
Project:	Project Marinus - Heybridge SI		Scale:	NTS	Drawing Number: 9/9
Drawn:	MW	Checked:			

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Project: Heybridge Converter Station

Page: 2 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414287.2 m

Elevation: 5.11 m

Started: 10/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452577.0 m

Datum: AHD

Finished: 11/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING		MATERIAL SUBSTANCE				ROCK MASS DEFECTS							
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata	Weathering	Estimated Strength Is(50) (MPa)	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)	Defect Spacing (mm)	Defect descriptions and additional observations (type, inclination, planarity, roughness, coating, thickness, other)	General
			5		Starting coring from 1.50 m								
			0.5										
			1.0										
			1.5		CORELOSS								
			2.0		GRAVEL: medium to coarse grained, sub-angular to angular, red brown	MW-HW						JT, 30°, UN, RF, SN, (Fe)	
			2.5		QUARTZWACKE: fine grained, red brown with yellow staining; medium bedded; moderately to highly weathered, medium strength							JT, 60°, PR, RF, SN, (Fe)	
			3.0		Extremely weathered QUARTZWACKE: Recovered as: Gravelly CLAY: low plasticity, grey mottled yellow brown, medium to coarse grained, sub-angular to angular gravel							BP, 30°, PR, RF, SN, (Fe)	
			3.5		QUARTZWACKE: fine grained, red brown with yellow staining; medium bedded; moderately to highly weathered, medium to high strength							JT, 60°, PR, RF, SN, (Fe)	
			4.0		2.50m: increased red and yellow staining 2.70m: yellow and red staining decreasing							BP, 40°, PR, RF, SN, (Fe), x3	
			4.5		3.47m: colour red brown with yellow/orange staining							CS, clay, sand, fine to medium grained, sub-angular to angular gravel	
			5.0		3.75m: reducing yellow and orange staining							JT, 30°, UN, RF, SN, (Fe)	
			5.5		4.56m: colour becoming yellow brown							JT, 90°, PR, RF, CN	
			6.0		4.62m: colour change to pale grey							BP, 35°, PR, RF, CN, x7	
			6.5		5.00m: colour becoming yellow brown pale grey							JT, 35°, UN, RF, CN, x2	
			7.0		CORELOSS							JT, 30°, UN, RF, CN	
			7.5		QUARTZWACKE: fine grained, yellow brown pale grey; medium bedded; moderately weathered, high strength	MW-HW						JT, 90°, PR, RF, CN	
			8.0		CORELOSS							BP, 40°, PR, RF, CN	
			8.5		QUARTZWACKE: fine grained, pale grey with yellow brown staining; medium bedded; moderately weathered; high strength	MW						CS, sand, sub-angular to angular gravel and silt	
			9.0		7.34m: colour becoming pale grey with yellow brown staining							JT, 90°, PR, RF, CN	
			9.5		7.87m: colour becoming pale grey with yellow brown staining							JT, 20°, PR, RF, CN	
			10.0									FZ, disturbed by drilling	
			10.5									BP, 30°, PR, RF, CN, x5	
			11.0									JT, 60°, PR, RF, CN	
			11.5									FZ, disturbed by drilling	
			12.0									JT, 80°, IR, RF, CN	
			12.5									JT, 30°, UN, RF, CN	
			13.0									BP, 45°, PR, RF, CN, x5	
			13.5									JT, 60°, ST, RF, CN	
			14.0									JT, 60°, PR, RF, CN	

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Project: Heybridge Converter Station

Page: 3 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414287.2 m

Elevation: 5.11 m

Started: 10/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452577.0 m

Datum: AHD

Finished: 11/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General							
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata	Weathering	Estimated Strength Is(50) (MPa)	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)	Defect descriptions and additional observations (type, inclination, planarity, roughness, coating, thickness, other)					
HQ3	40		3		QUARTZWACKE: fine grained, pale grey with yellow brown staining; medium bedded; moderately weathered; high strength 8.00m: colour becoming pale grey with red staining 8.40m: colour becoming red brown with orange staining	SW-MW		a=2.30	42	100		JT, 90°, PR, RF, CN, x2, JT, 30°, UN, RF, CN, x4 CS, sand, fine to medium grained, sub-angular to angular gravel BP, disturbed by drilling						
			9.0		9.20m: colour becoming dark grey with minor yellow staining 9.36m: colour becoming pale grey with red and yellow brown staining 9.45m: colour becoming yellow brown	MW						14	100	BP, 45°, PR, RF, CN, multiple BPs FZ, disturbed by drilling BP, 45°, PR, RF, CN, x7 JT, 60°, UN, RF, CN, x3 JT, 90°, PR, RF, SN, (Fe) JT, 45°, UN, RF, SN, (Fe)				
			9.5		9.85m: colour changing to pale grey with minor yellow staining 10.10m: colour changing to yellow brown	SW-MW						16	77	JT, 30°, PR, RF, SN, (Fe), x2 BP, 45°, PR, RF, CN, x6				
			10.0		CORELOSS	MW												
			10.5		QUARTZWACKE: fine grained, yellow brown; thinly to medium bedded; moderately weathered; high to very high strength 10.70m: colour changing to red brown with yellow staining	MW						a=7.20	25	100	FZ, disturbed by drilling CS, silt BP, 30°, PR, RF, CN, x3 JT, 75°, PR, RF, CN JT, 10°, IR, RF, CN FZ, disturbed by drilling			
			11.0		11.13m: colour changing to pale grey with red brown staining 11.30m: colour changing to yellow brown										53	100	BP, 45°, PR, RF, CN, x4 JT, 35°, IR, RF, CN JT, 20°, UN, RF, CN JT, 30°, UN, RF, SN, (Fe) JT, 60°, UN, RF, SN, (Fe)	
			11.5		11.90m: colour becoming pale grey with minor yellow staining 12.20m: colour becoming yellow brown										60	100	JT, 40°, UN, RF, CN, x3 BP, 45°, PR, RF, CN	
			12.0		12.53m: colour becoming pale grey with yellow brown staining 13.00m: colour becoming red brown										24	100	FZ, disturbed by drilling JT, 40°, UN, RF, CN, x3 JT, 60°, PR, RF, SN, (Fe) JT, 20°, UN, RF, CN FZ, disturbed by drilling	
			12.5		CORELOSS													
			13.0		13.80m: colour changing to dark grey 14.34m: colour changing to red brown with yellow brown staining										56	100	JT, 45°, IR, RF, SN, (Fe) JT, 30°, UN, RF, SN, (Fe) JT, 30°, PR, RF, SN, (Fe) BP, 45°, PR, RF, CN, x2	
			13.5		QUARTZWACKE: fine grained, dark grey; thinly to medium bedded; moderately weathered; high to very high strength										34	92	BP, 30°, PR, RF, CN, x3 JT, 20°, UN, RF, CN, x2 CS, fine to medium grained, sub-angular to angular gravel JT, 60°, UN, RF, SN, (Fe), x2 JT, 20°, UN, RF, CN FZ, disturbed by drilling	
			14.0		CORELOSS													
			14.5		QUARTZWACKE: fine grained; red brown with yellow brown staining; thinly to medium bedded; moderately weathered; high strength 15.37m: colour becoming pale grey with red brown and yellow brown staining										0	78	FZ, disturbed by drilling BP, 30°, PR, RF, CN, x3 CS, fine to medium grained, sub-angular to angular gravel JT, 60°, PR, RF, SN, (Fe) JT, 45°, IR, RF, SN, (Fe) JT, 30°, PR, RF, SN, (Fe) FZ, disturbed by drilling	
			15.0		CORELOSS													
			15.5												HW			
		MW																

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Project: Heybridge Converter Station

Page: 4 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414287.2 m

Elevation: 5.11 m

Started: 10/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452577.0 m

Datum: AHD

Finished: 11/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General	
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata	Weathering	Estimated Strength Is(50) (MPa)	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)
HQ3	40		-11		QUARTZWACKE: fine grained; red brown with yellow brown staining; thinly to medium bedded; moderately weathered; high strength 16.00m: colour changing to red brown 16.10m: colour changing to pale grey with yellow brown and red brown staining CORELOSS	MW		a=4.90	11	100		JT, 10°, UN, RF, SN, (Fe) BP, 20°, PR, RF, SN, (Fe), x2 JT, 60°, UN, RF, SN, (Fe), x6 SM, 20°, fine to medium grained, angular gravel
			-12		QUARTZWACKE: fine grained, pale grey with yellow brown and red brown staining; thinly to medium bedded; moderately weathered; high strength 17.75m: colour becoming pale grey with yellow brown and red brown staining	SW-MW	d=1.30	74	FZ, disturbed by drilling JT, 30°, UN, RF, SN, (Fe) BP, 40°, PR, RF, SN, (Fe), x2 JT, 40°, PR, RF, VNR, (Sand), x2 FZ, disturbed by drilling JT, 30°, UN, RF, SN, (Fe), x2 JT, 40°, PR, RF, SN, (Fe), x2			
			-13		18.45m: colour changing to dark grey with red brown staining 18.78m: colour changing to red brown with yellow staining	MW	a=2.20	47	BP, 45°, PR, RF, SN, (Fe), x7 FZ, disturbed by drilling JT, 30°, UN, RF, CN, x2			
			-14		19.10m: colour becoming grey yellow brown with minor red staining 19.35m: increased yellow brown staining	MW	17	JT, 30°, PR, RF, SN, (Fe) JT, 40°, IR, RF, SN, (Fe) BP, 30°, PR, RF, SN, (Fe), x6 BP, 40°, PR, RF, CN, disturbed by drilling CS, medium grained gravel				
			-15		20.60m: colour changing to red brown with yellow brown staining 20.75m: colour changing to dark brown with yellow staining 21.00m: colour becoming pale grey with orange brown staining 21.20m: colour becoming pale grey with red brown staining with minor yellow brown staining	MW-HW	0	JT, 20°, UN, RF, SN, (Fe) JT, 45°, UN, RF, SN, (Fe) BP, 45°, PR, RF, CN, x2 BP, 45°, PR, RF, CN, multiple BPs				
			-16		Extremely weathered QUARTZWACKE: Recovered as Clayey SILT: low to medium plasticity, pale grey mottled red brown; with fine to coarse grained sand; with fine grained, sub-angular to angular gravel QUARTZWACKE: fine grained, pale grey with red brown staining with minor yellow brown staining; thinly to medium bedded; moderately weathered; medium to high strength	HW	0	JT, 60°, IR, RF, SN, (Fe), x3 JT, 40°, PR, RF, SN, (Fe), x5 FZ, disturbed by drilling FZ, disturbed by drilling BP, 30°, PR, RF, SN, (Fe), multiple BPs JT, 45°, PR, RF, SN, (Fe) JT, 50°, PR, RF, SN, (Fe) JT, 30°, UN, RF, Filled, (calcite) BP, 45°, PR, RF, SN, (Fe) BP, 45°, PR, RF, SN, (Fe) BP, 40°, PR, RF, SN, (Fe), disturbed by drilling BP, 40°, PR, RF, SN, (Fe), x3				
			-17		23.64m: colour becoming grey yellow brown with red brown staining Extremely Weathered QUARTZWACKE: Recovered as Gravelly CLAY: low plasticity, yellow brown mottled dark brown, medium grained, sub-angular to sub-rounded gravel	MW	43	JT, 50°, UN, RF, SN, (Fe) FZ, disturbed due to drilling JT, 70°, PR, RF, SN, (Fe) BP, 30°, PR, RF, CN, multiple				
			-18			XW	14	BP, 30°, PR, RF, SN, (Fe) JT, 40°, ST, RF, SN, (Fe)				
			-18			MW	80	FZ BP, 45°, PR, RF, SN, (Fe) JT, 45°, UN, RF, SN, (Fe) JT, 45°, UN, RF, SN, (Fe) JT, 85°, PR, RF, SN, (Fe)				
			-23.5									

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Project: Heybridge Converter Station

Page: 5 of 5

Client:

Location: Heybridge Landside Landfall Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Tasmanian Drilling

Easting: 414287.2 m

Elevation: 5.11 m

Started: 10/02/2022

Plant: Hanjin D&B 8-D

Northing: 5452577.0 m

Datum: AHD

Finished: 11/02/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

DRILLING			MATERIAL SUBSTANCE				ROCK MASS DEFECTS				General	
Method	Groundwater/ Water Loss (%)	RL (m)	Depth (m)	Graphic Log	Description of Strata <small>ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, major defect type)</small>	Weathering	Estimated Strength Is(50) (MPa) <small>□ - Axial ○ - Diametral</small>	Point Load Strength Index Is(50) (MPa)	RQD (%)	TCR (%)		Defect Spacing (mm)
HQ3			-19		CORELOSS	HW		a=0.77	14	90		BP, 30°, PR, RF, SN, (Fe) JT, 30°, UN, RF, SN, (Fe), x3
			GRAVEL: medium grained, sub-angular to angular, pale grey brown									
			QUARTZWACKE: fine grained, brown with minor black streaking; thinly to medium bedded; highly weathered; medium strength									
			Extremely Weathered QUARTZWACKE: Recovered as Gravelly SILT: low plasticity, pale grey brown, fine grained, sub-angular to angular gravel; with fine to coarse grained sand									
			CORELOSS									
			QUARTZWACKE: fine grained, orange grey brown; very thinly bedded; highly weathered; medium strength 25.34m: becoming pale grey with orange yellow staining									
			CORELOSS									
			QUARTZWACKE: fine grained, pale grey with orange yellow staining; thinly bedded; moderately to highly weathered; medium to high strength 26.25m: colour becoming red brown with dark grey staining									
			CORELOSS									
			MUDSTONE: fine grained, pale grey with yellow and red staining; thinly bedded; moderately weathered; high strength 26.79m: colour becoming dark grey with minor yellow staining									
HQ3			-21		QUARTZWACKE: fine grained, pale grey with orange yellow staining; thinly bedded; moderately to highly weathered; medium to high strength 26.25m: colour becoming red brown with dark grey staining	MW-HW		a=0.37	0	86		BP, 40°, PR, RF, SN, (Fe) BP, 40°, PR, RF, Filled, (Calcite) BP, 40°, PR, RF, SN, (Fe)
			CORELOSS									
			MUDSTONE: fine grained, pale grey with yellow and red staining; thinly bedded; moderately weathered; high strength 26.79m: colour becoming dark grey with minor yellow staining									
			CORELOSS									
			MUDSTONE: fine grained, pale brown grey with yellow and red staining; thinly bedded; moderately weathered, medium strength									
			CORELOSS									
			MUDSTONE: fine grained, pale brown grey with yellow and red staining; thinly bedded; moderately weathered, medium strength									
			CORELOSS									
			MUDSTONE: fine grained, pale brown grey with yellow and red staining; thinly bedded; moderately weathered, medium strength									
			CORELOSS									
HQ3			-23		MUDSTONE: fine grained, pale brown grey with yellow and red staining; thinly bedded; moderately weathered, medium strength	MW		d=0.35	0	80		BP, 40°, PR, RF, CN, disturbed by drilling BP, 30°, PR, RF, CN, x2 FZ BP, 30°, PR, RF, CN, disturbed by drilling FZ BP, 40°, PR, RF, SN, (Fe)
			CORELOSS									
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
			CORELOSS									
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
			CORELOSS									
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
HQ3			-24		CORELOSS	MW		a=1.00	48	82		FZ, disturbed by drilling CS, fine to medium grained, sub-angular to angular gravel JT, 45°, UN, RF, Filled, fine grained, sub-angular to sub-rounded gravel, black; with fine to coarse grained sand
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
			CORELOSS									
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
			CORELOSS									
			Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand									
			QUARTZWACKE: fine grained, orange brown; thickly bedded; moderately weathered; very high strength									
			CORELOSS									
Extremely weathered QUARTZWACKE: Recovered as GRAVEL: fine to coarse grained, angular to sub-angular, pale grey brown; with coarse grained sand												
HQ3			-25		Exploratory hole terminated at 30.00 m Target depth							
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
HQ3			-26		Exploratory hole terminated at 30.00 m Target depth							
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									
			Exploratory hole terminated at 30.00 m Target depth									

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Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 1/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 2/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 3/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 4/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 5/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 6/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 7/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 8/9



Multiple

Jacobs

Client: Tasmanian Networks

Project: Project Marinus - Heybridge SI

Drawn: MW

Checked:

Title: HBLF-BH02-C

Scale: NTS

Drawing Number: 9/9

Appendix B3. Test Pit Logs and Photos

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414073.3 m

Elevation: 7.29 m

Started: 28/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452518.8 m

Datum: AHD

Finished: 28/01/2022

Logged By: MW


Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
							SOIL TYPE: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components					
					7		FILL: Sandy GRAVEL: fine to coarse grained, black, fine to coarse sand; with low plasticity silt		MD			FILL
			B		0.5		FILL: Gravelly SAND: fine to coarse grained, pale grey, fine to coarse grained gravel, low plasticity silt; with sub-angular to angular cobbles					0.10 : dosage = 63 nSv/hr
							Silty SAND: fine to coarse grained, yellow brown, low plasticity silt, with fine grained, angular to sub-angular gravel		M	D		0.30 : concrete fragments encountered
			B		1.0		0.90m: colour changing to pale grey brown, gravel content decreasing					0.50 : PP = 350 kPa, k = 0.261 W/mK, R = 383.142 Ccm/W, in-situ
							Silty GRAVEL: fine to medium grained, angular to sub-angular, pale grey brown, low plasticity silt; with fine to coarse grained sand					AEOLIAN DEPOSITS Moisture Content : 11.6%, dosage = 110 nSv/hr
					6							0.70 : abandoned pipe encountered
					1.5		Extremely Weathered QUARTZWACKE: recovered as Gravelly SAND: fine to coarse grained, grey brown, flakes of angular QUARTZWACKE gravels; with low plasticity silt		VD			1.00 : PP > 600kPa, k = 0.7448 W/mK, R = 134.261 Ccm/W, in-situ
							Exploratory hole terminated at 1.60 m Refusal					Residual Material Moisture Content = 12.5%, dosage = 115 nSv/hr, 1.4 CPS
					2.0							EXTREMELY WEATHERED MATERIAL
					5							
					2.5							
					3.0							
					4							
					3.5							

METHOD & SUPPORT	PENETRATION	GROUNDWATER	SAMPLES & FIELD TESTS	MOISTURE	DENSITY (N-value)	CONSISTENCY (SU) (N-value)
N Natural/Existing cutting E Excavator BH Backhoe Bucket B Bulldozer R Ripper	No resistance ranging to refusal 	▼ = Water level (static) ▶ = Water inflow	D Disturbed Sample B Bulk Sample SPT SPT Sample U Undisturbed Sample E Enviro Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P, Peak Su R; Residual Su)	D = Dry M = Moist W = Wet Wp = Plastic Limit Wl = Liquid Limit	VL Very Loose 0 - 4 L Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100	VS Very Soft < 12 kPa (0-2) S Soft 12 - 25 (2-4) F Firm 25 - 50 (4-8) St Stiff 50 - 100 (8-15) VSt Very Stiff 100 - 200 (15-30) H Hard > 200 kPa (>30)

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HB-TP01-C Depth Range: 0.00 - 1.60 m



HB-TP01-C Depth Range: 0.00 - 1.60 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	MW	Checked:	AC

Title:	HB-TP01-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414027.6 m

Elevation: 6.73 m

Started: 28/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452590.4 m

Datum: AHD

Finished: 28/01/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE									
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations	
							SOIL TYPE: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components						
EU	Not Observed	Not Observed	B	0.0 - 0.5	0.0 - 0.5		FILL: Sandy GRAVEL: fine to medium grained, sub-angular to angular, dark grey, fine to coarse grained sand					FILL	
			B	0.5 - 1.0	0.5 - 1.0		Silty CLAY: low plasticity, orange brown; with fine to medium grained sand.					0.10 : dosage = 68 nSv/hr	
			B	1.0 - 1.5	1.0 - 1.5		Silty SAND: fine to medium grained, orange brown, low plasticity silt; with medium grained, sub-angular to sub-rounded gravel					0.50 : PP > 600kPa, k = 0.0981 W/mK, R = 1019.7 Ccm/W, in-situ RESIDUAL SOIL Moisture Content = 12%, dosage = 69 nSv/hr	
			B	1.5 - 2.0	1.5 - 2.0							0.70 : abandoned electrical cable encountered, PP > 600 kPa, k = 2.3335 W/mK, R = 42.85 Ccm/W, in-situ moisture content = 72%	
			B	2.0 - 2.5	2.0 - 2.5								1.00 : dosage = 77 nSv/hr
			D	2.5 - 3.0	2.5 - 3.0		Extremely Weathered QUARTZWACKE: recovered as Gravelly SILT: low plasticity, pale grey, mottled white, fine to medium grained gravel sized angular flakes of QUARTZWACKE						1.70 : PID = 0.5 PPM (hydrocarbon odour)
				3.0	3.0		Exploratory hole terminated at 3.00 m Target depth					2.00 : PID = 0.6 PPM (hydrocarbon odour), dosage = 75 nSv/hr	
					3.5							EXTREMELY WEATHERED MATERIAL	
					4.0							2.50 : PID = 4.1 PPM	
					3.0							3.00 : PID = 0.2 PPM, dosage = 85 nSv/hr	

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HB-TP02-C Depth Range: 0.00 - 3.00 m



HB-TP02-C Depth Range: 0.00 - 3.00 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	MW	Checked:	AC

Title:	HB-TP02-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414152.6 m

Elevation: 8.04 m

Started: 31/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452492.6 m

Datum: AHD

Finished: 31/01/2022

Logged By: AV

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE							
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description SOIL TYPE: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components	Moisture	Consistency Relative Density	DCP (blows/ 100mm)	Field Test Data & Other Observations
LU 		D D D	D D	8			FILL: Sandy GRAVEL: fine to coarse grained, sub-angular to angular, fine to coarse grained sand; with angular to sub-angular cobbles	D		FILL 0.10 : PID = 0 PPM, dosage = 0.8 CPS 0.50 : PP > 600 kPa, k = 0.0735 W/mK, R = 1359.7 Ccm/W, in-situ moisture content = 6.6 %, PID = 0 PPM, dosage = 1.0 CPS	
				0.5			FILL: GRAVEL: angular to sub-angular, coarse grained, grey, with fine to coarse grained sand	MD-D			
				7			1.40m: light brown sand clay cobble present 20mm - 60mm	MD		1.00 : PP > 600 kPa, k = 1.7370 W/mK, R = 57.57 Ccm/W, in-situ moisture content = 7.5%, PID = 0 PPM, dosage = 1.2 CPS	
				1.5			Sandy SILT: low plasticity, light brown mottled white	M			
				2.0			Clayey Sandy SILT: low plasticity, grey with minor orange mottling; fine to coarse grained sand	St			
				2.5			Sandy SILT: low plasticity, grey brown, fine to coarse grained sand; with coarse grained, angular to sub-angular gravel	VSt		RESIDUAL SOIL	
				3.0			Gravelly SAND: coarse grained, grey brown, medium to coarse grained, rounded to sub-rounded gravel	D-VD			
5				3.0		Exploratory hole terminated at 3.00 m Target depth					

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HB-TP03-C Depth Range: 0.00 - 3.00 m



HB-TP03-C Depth Range: 0.00 - 3.00 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	AV	Checked:	AC

Title:	HB-TP03-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414200.9 m

Elevation: 10.20 m

Started: 31/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452441.7 m

Datum: AHD

Finished: 31/01/2022

Logged By: AV

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
EU	Not Observed	Not Observed	D	10.0	0.5	[Cross-hatched pattern]	FILL: Sandy GRAVEL: medium to coarse grained, pale grey, fine to coarse grained sand	D	D	D	8-10	FILL 0.10 : PID = 0 PPM, dosage = 47 nSv/hr
				0.90m: colour change to light brown aggregate/cobble size decrease	MD		0.50 : PP = 100 kPa, k=0.3500 W/mK, R=285.010 Ccm/W, in-situ moisture content = 0.6%					
				1.5	[Dotted pattern]	Gravelly SAND: fine to medium grained, orange brown, fine to medium grained gravel; with low plasticity silt	M	MD-D	11-15	RESIDUAL SOIL		
				2.0		2.00 : dosage = 65 nSv/hr						
				2.5	[Cross-hatched pattern]	Sandy SILT: low plasticity, orange brown, fine to coarse grained; with coarse grained, sub-angular to angular gravel	M	St-VSt	16-20	2.30m: softer, moist/damp, weathered rock, siltstone, coarse sand with weathered material		
2.5	Sandy CLAY: low plasticity, dark brown; medium to coarse grained sand; with angular to sub-angular gravel of QUARTZWACKE											
3.0	D	3.00 : dosage = 63 nSv/hr										
				3.0	7		Exploratory hole terminated at 3.00 m Target depth					

METHOD & SUPPORT	PENETRATION	GROUNDWATER	SAMPLES & FIELD TESTS	MOISTURE	DENSITY (N-value)	CONSISTENCY (SU) (N-value)
N Natural/Existing cutting E Excavator BH Backhoe Bucket B Bulldozer R Ripper	No resistance ranging to refusal 	▼ = Water level (static) ► = Water inflow	D Disturbed Sample B Bulk Sample SPT SPT Sample U Undisturbed Sample E Enviro Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P: Peak Su R: Residual Su)	D = Dry M = Moist W = Wet Wp = Plastic Limit Wl = Liquid Limit	VL Very Loose 0 - 4 LL Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100	VS Very Soft < 12 kPa (0-2) S Soft 12 - 25 (2-4) F Firm 25 - 50 (4-8) St Stiff 50 - 100 (8-15) VSt Very Stiff 100 - 200 (15-30) H Hard > 200 kPa (>30)

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HB-TP04-C Depth Range: 0.00 - 3.00 m



HB-TP04-C Depth Range: 0.00 - 3.00 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	AV	Checked:	AC

Title:	HB-TP04-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 413982.1 m

Elevation: 8.20 m

Started: 28/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452515.4 m

Datum: AHD

Finished: 28/01/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE									
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations	
							SOIL TYPE: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components						
			B	8			FILL: Gravelly CLAY: low plasticity, dark grey, fine to medium grained gravel; with fine to coarse grained sand		D-VD			FILL 0.10 : PID = 0 PPM, dosage = 63 nSv/hr	
			B	0.5			FILL: Sandy GRAVEL: fine to coarse grained, sub-angular to angular, pale grey yellow, fine to coarse grained sand; with low plasticity silt, with cobbles		MD			0.50 : PP = 350 kPa, k = 0.1218 W/m ³ *K, R = 826.652 Ccm/W, in-situ Moisture content = 9.4%, PID = 0 PPM, dosage = 92 nSv/hr	
				1.0			Extremely Weathered QUARTZWACKE: recovered as Clayey SILT: fine to medium grained, pale grey; with fine to medium grained flakes of gravel sized QUARTZWACKE		H			EXTREMELY WEATHERED MATERIAL 1.00 : PP >600kPa, PID = 0 PPM, dosage = 77 nSv/hr	
				7			Exploratory hole terminated at 1.10 m Refusal						
				1.5									
				2.0									
				6									
				2.5									
				3.0									
				5									
				3.5									
METHOD & SUPPORT		PENETRATION		GROUNDWATER		SAMPLES & FIELD TESTS		MOISTURE		DENSITY (N-value)		CONSISTENCY (SU) (N-value)	
N Natural/Existing cutting E Excavator BH Backhoe Bucket B Bulldozer R Ripper		No resistance ranging to refusal 		▼ = Water level (static) ▲ = Water inflow		D Disturbed Sample B Bulk Sample SPT SPT Sample U Undisturbed Sample E Enviro Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P, Peak Su R; Residual Su)		D = Dry M = Moist W = Wet Wp = Plastic Limit Wl = Liquid Limit		VL Very Loose 0 - 4 L Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100		VS Very Soft < 12 kPa (0-2) S Soft 12 - 25 (2-4) F Firm 25 - 50 (4-8) St Stiff 50 - 100 (8-15) VSt Very Stiff 100 - 200 (15-30) H Hard > 200 kPa (>30)	

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HB-TP05-C Depth Range: 0.00 - 1.10 m



HB-TP05-C Depth Range: 0.00 - 1.10 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	MW	Checked:	AC

Title:	HB-TP05-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414106.5 m

Elevation: 11.14 m

Started: 28/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452387.3 m

Datum: AHD

Finished: 28/01/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
							SOIL TYPE: Plasticity or Particle Characteristics, Colour, Secondary and Minor Components					
					11		FILL: Silty Sandy GRAVEL: fine to medium grained, dark grey, low plasticity, fine to coarse sand	M	MD			FILL
			B		0.5		FILL: Sandy Gravelly CLAY: low plasticity, yellow brown, fine to coarse grained sand, fine to coarse grained, sub-angular to angular gravel; with sub-angular to angular cobbles, with boulders up to 250mm (sub-angular to angular)	M <Wp	H			0.10 : PID =0 PPM, dosage = 70 nSv/hr
					1.0		FILL: Silty SAND: fine to medium grained, dark grey, low plasticity silt	M	MD			0.50 : PP >600 kPa, k = 0.0589 W/mK, R = 1697.0 Ccm/W, in-situ moisture content = 2.3%, PID =0 PPM, dosage = 68 nSv/hr
			D		10		1.20m: with fine to coarse, sub-angular to angular gravel; with boulders up to 250mm					1.00 : PP = 200 kPa, k = 0.6287 W/mK, R = 159.061 Ccm/W, in-situ moisture content = 10.5%, PID =0 PPM, dosage = 80 nSv/hr
					1.5		Sandy SILT: low plasticity, pale grey mottled yellow brown; fine to coarse grained sand					RESIDUAL SOIL
					1.70		1.70m: colour becoming yellow brown mottled pale grey red brown, sand content increasing					1.30 : dosage = 70nSv/hr
			B		2.0							1.50 : PP = 350 kPa
					2.5		2.50m: colour changing pale grey, mottled yellow					1.80 : PP = 300 kPa
					2.60		2.60m: increasing sand content					2.00 : PID =0 PPM, dosage = 70 nSv/hr
			D		3.0							3.00 : PID =0 PPM, dosage = 110 nSv/hr
					8		Exploratory hole terminated at 3.00 m Target depth					
					3.5							

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HB-TP06-C Depth Range: 0.00 - 3.00 m



HB-TP06-C Depth Range: 0.00 - 3.00 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	MW	Checked:	AC

Title:	HB-TP06-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 414154.1 m

Elevation: 13.59 m

Started: 28/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452362.9 m

Datum: AHD

Finished: 28/01/2022

Logged By: MW

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
Method: EU Penetration: Not Observed Groundwater: Not Observed	B B B D	RL: 13.0 12.0 11.0 10.0	Depth: 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 10.0	0.0	0.0	FILL: Silty Sandy GRAVEL: fine to medium grained, dark grey, low plasticity, fine to coarse grained sand FILL: Clayey GRAVEL: fine to coarse, grained sub-angular, yellow brown, low plasticity clay; with fine to medium grained sand <i>0.35m: colour becoming yellow brown mottled red</i>	M	<Wp	H	5	FILL 0.10 : PID =0 PPM, dosage = 45 nSv/hr 0.50 : PP >600kPa, k = 0.2740 W/mK, R = 364.921 Ccm/W, in-situ Moisture content = 2.0%, PID =0 PPM, dosage = 52 nSv/hr	
				1.0	1.0	FILL: Gravelly Sandy CLAY: low to medium plasticity, grey brown, fine to coarse grained sand, fine to medium grained gravel Silty SAND: fine grained, dark grey, low plasticity silt	L		AEOLIAN DEPOSITS 1.00 : PP = 300 kPa, k = 1.0899 W/mK, R = 91.75 Ccm/W, in-situ moisture content = 3.7%, PID =0 PPM, dosage = 80 nSv/hr			
				1.5	1.5	Gravelly SAND: fine to medium grained, orange brown with minor yellow mottling; with low plasticity clay; trace silt	M		RESIDUAL SOIL 2.00 : PID =0 PPM, dosage = 47 nSv/hr			
				2.0	2.0	<i>2.40m: colour becoming orange brown with minor white and black mottling, increasing clay content</i>	MD		3.00 : PID =0 PPM, dosage = 43 nSv/hr			
				2.5	2.5	Exploratory hole terminated at 3.00 m Target depth						
				3.0	3.0							

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HB-TP07-C Depth Range: 0.00 - 3.00 m



HB-TP07-C Depth Range: 0.00 - 3.00 m



Client:	Tasmanian Networks		
Project:	Project Marinus - Heybridge SI		
Drawn:	MW	Checked:	AC

Title:	HB-TP07-C		
Scale:	NTS	Drawing Number:	1/1

Project: Heybridge Converter Station

Page: 1 of 1

Client:

Location: Heybridge Converter Station Site, Heybridge TAS

Project No: IS360318 -1

Contractor: Treloar Transport

Easting: 413932.1 m

Elevation: 7.75 m

Started: 31/01/2022

Plant: Kobelco SK135 13.5t Excavator

Northing: 5452687.3 m

Datum: AHD

Finished: 31/01/2022

Logged By: AV

Checked By: AC

Grid: GDA2020

Inclination: -90°

Orientation: N/A

EXCAVATION INFORMATION				MATERIAL SUBSTANCE								
Method	Penetration	Groundwater Levels	Samples & SPT Data	RL (m)	Depth (m)	Graphic Log	Material Description	Moisture	Consistency	Relative Density	DCP (blows/100mm)	Field Test Data & Other Observations
Method: LU Penetration: [Bar chart showing penetration resistance] Groundwater Levels: [Water level and inflow indicators] Samples & SPT Data: [Sample locations B]				0.0	0.0	[Graphic Log: Sandy GRAVEL]	Sandy GRAVEL: medium grained, grey, fine to coarse grained sand	D-M	MD			FILL
				0.5	0.5	[Graphic Log: Silty CLAY]	Silty CLAY: high plasticity, orange brown mottled white; trace fine to medium grained sand					RESIDUAL SOIL 0.50 : PP = 120 kPa, k = 1.3582 W/mK, R = 73.63 Ccm/W, in-situ moisture content = 40.4%, PID = 0 PPM, dosage = 1.0 CPS
				1.0	1.0	[Graphic Log: Silty CLAY]						1.00 : PP = 180 kPa, k = 0.8075 W/mK, R = 123.841 Ccm/W, in-situ moisture content = 39%, PID = 0 PPM, dosage = 1.0 CPS
				2.0	2.0	[Graphic Log: Silty CLAY]						2.00 : PID = 0 PPM, dosage = 0.9 CPS
				2.5	2.5	[Graphic Log: Clayey SILT]	Clayey SILT: high plasticity, red-brown; trace fine to medium grained sand					
				3.0	3.0	[Graphic Log: Exploratory hole terminated]	Exploratory hole terminated at 3.00 m Target depth					3.00 : PID = 0 PPM, dosage = 0.8 CPS
				3.5	3.5							
				4.0	4.0							

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