

BOREHOLE LOG - MH01-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 13/01/2025
Borehole Location: Refer to Site Plan



Logged by: SS Checked by: MJC Scale: 1:50 Sheet 1 of 2

Position: 388556.2mE; 829928.6mN Projection: EDENMT2000 Survey Source: Handheld GPS
Elevation: 57.00m Datum: AUCKHT1946

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/ Relative Density	Weathering							Recovery		Estimated Strength		Defect Spacing (mm)		Drilling Method/ Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Depth	Type & Results							RS	CW	HW	MW	SW	UW	Recovery	RQD	EW	W	MS	S	VS			ES	<20	20-60	60-200	200-600	600-2000	>2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		1.5	SPT: N* = 6 (0, 0 / 1, 1, 2, 2)	57.0			OL: Organic SILT: Dark brown. Low plasticity. With minor rootlets. (Topsoil)		S								100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

Termination Reason: Target Depth Reached.
Shear Vane No: DCP No:
Remarks:
This report is based on the attached field description for soil and rock, CMW Geosciences - Field Logging Guide, Revision 4 - April 2023.

BOREHOLE LOG - MH01-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 13/01/2025



Borehole Location: Refer to Site Plan Logged by: SS Checked by: MJC Scale: 1:50 Sheet 2 of 2

Position: 388556.2mE; 829928.6mN Projection: EDENMT2000 Survey Source: Handheld GPS
Elevation: 57.00m Datum: AUCKHT1946

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/Relative Density	Weathering					Recovery	RQD	Estimated Strength					Defect Spacing (mm)					Drilling Method/Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks
		Depth	Type & Results							RS	CW	HW	MW	SW	UW		EW	W	MS	VS	ES	<20	20-60	60-200	200-600	600-2000	>2000	
		10.5	SPT: N* = 50+ (7, 18 / 21, 22, 7, 0 for 25mm)		11		... at 10.25m, Clasts becoming subangular to rounded.									44											SPT	11.5-11.6m: 1,JN,60°,PL,R,CL,CO,(CA),W,
		12.0	SPT: N* = 50+ (9, 17 / 25, 25, 0, 0 for 45mm for 0mm for 0mm)		12											100	82										TT / HQ3	
		13.5	SPT: Nc = 39 (7, 12 / 9, 10, 10, 10)		13											67	19										SPT	12.8-12.9m: 1,JN,55°,UN,R,CL,CO,(CA),W,
		14.0			14											0											TT / HQ3	
		15.0	SPT: Nc = 50+ (9, 21 / 23, 27, 0, 0 for 75mm)		15		Highly weathered, dark grey, massive, SILTSTONE: Very weak. With trace fine sand and limestone grains. (Mangakahia Complex)									86	57										OB / PQ3	14.3m: 1,JN,10°,IR,R,CL,IF,(Z),W,
		16.5	SPT: Nc = 36 (4, 7 / 7, 8, 9, 12)		16		ML: Highly weathered, dark grey, massive SILTSTONE: Extremely weak. Recovered as SILT with trace fine sand. Low plasticity. With trace fine sand sized limestone clasts. (Mangakahia Complex)									100	100										SPT	
		18.0	SPT: Nc = 32 (8, 6 / 8, 8, 8, 8)		18											100	100										TT / HQ3	17.2m: 1,JN,60°,PL,R,CL,CO,(Z),W,
		19.5	SPT: Nc = 34 (3, 5 / 6, 8, 9, 11)		19											0											SPT	
					20		Borehole terminated at 19.95 m									0											TT / HQ3	18.0m: 1,JN,60°,PL,R,CL,CO,(CL),MW,

Termination Reason: Target Depth Reached.

Shear Vane No: DCP No:

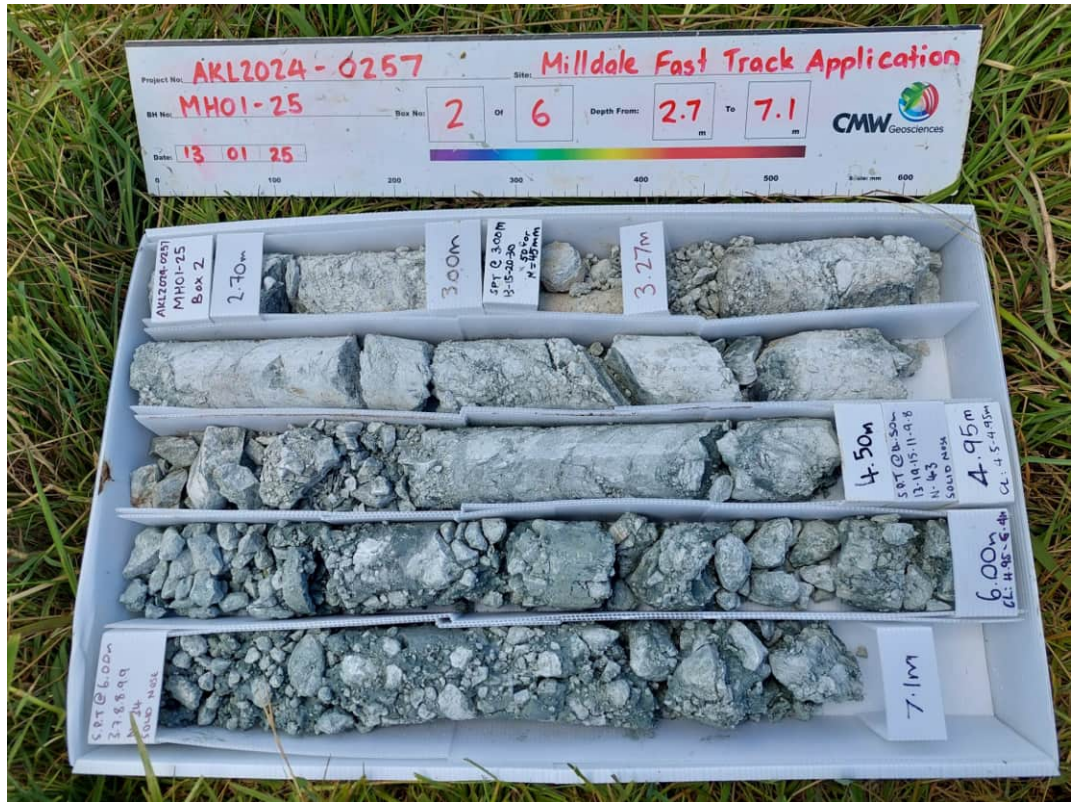
Remarks:

PHOTOGRAPH SHEET - MH01-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 13/01/2025



MH01-25: 0.00m - 2.70m

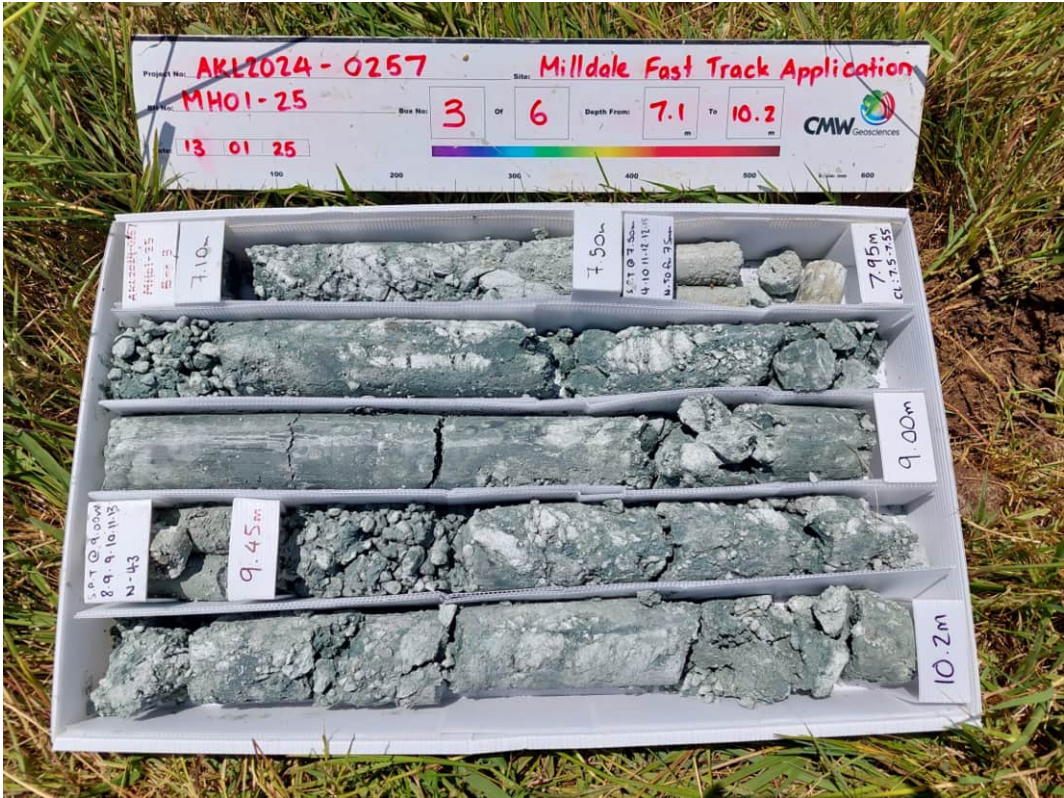


MH01-25: 2.70m - 7.10m

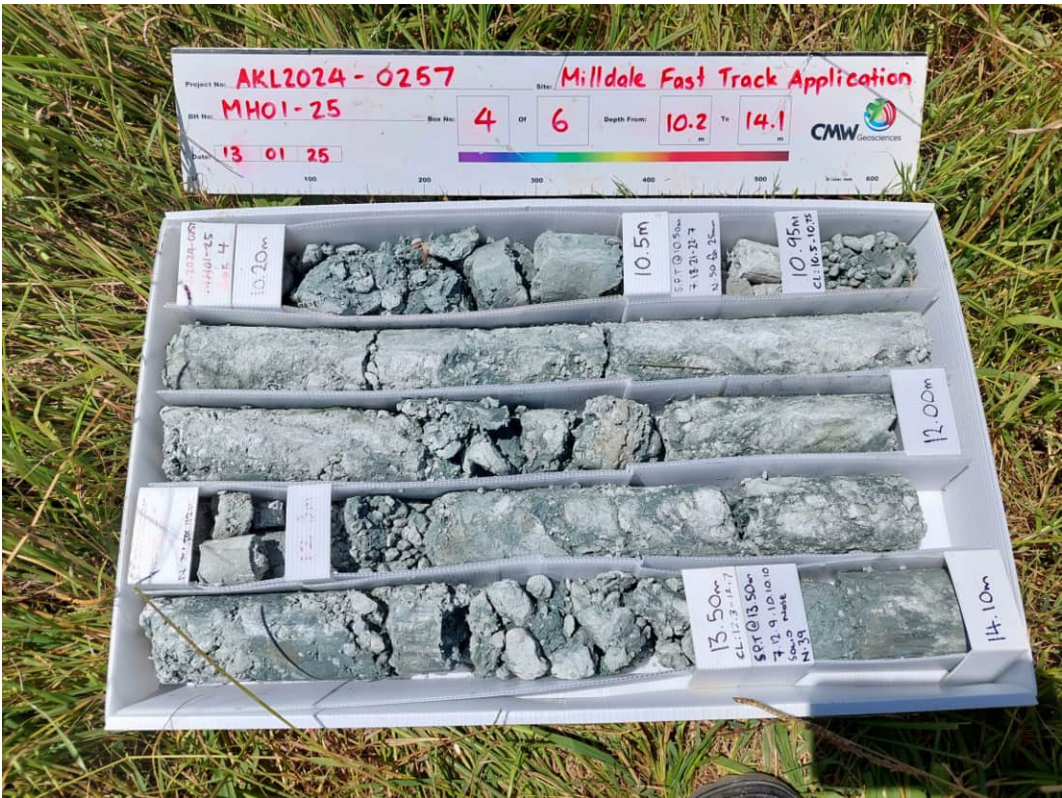
This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH01-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 13/01/2025



MH01-25: 7.10m - 10.20m



MH01-25: 10.20m - 14.10m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH01-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 13/01/2025



MH01-25: 14.10m - 17.85m



MH01-25: 17.85m - 19.50m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

BOREHOLE LOG - MH02-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 14/01/2025



Borehole Location: Refer to Site Plan

Logged by: JH

Checked by: MJC Scale: 1:50

Sheet 1 of 2

Position: 388502.9mE; 829718.5mN
Elevation: 60.75m

Projection: EDENTM2000
Datum: AUCKHT1946

Survey Source: Handheld GPS

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/Relative Density	Weathering					Recovery	RQD	Estimated Strength					Defect Spacing (mm)	Drilling Method/Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks		
		Depth	Type & Results							RS	CW	HW	MW	SW			UW	EW	VW	W	MS				S	VS
				60.8			OL: Organic SILT: Dark brown. Low plasticity. With minor rootlets. (Topsoil)		S																	
				60.6			CH: Silty CLAY: Orange brown and grey mottled orange. High plasticity. With trace limonite staining. (Hukerenui Mudstone)		St						100											
		1.5	SPT: N* = 9 (1, 2 / 2, 2, 3, 2)				ML: Clayey SILT with trace fine sand: Brownish grey mottled orange. Low plasticity. With trace limonite staining and rootlets. (Hukerenui Mudstone)		F						100											
				59.7	1		... at 1.13m, Becoming light brownish grey with trace orange mottles.		St						93											
				58.5	2		... at 2.00m, With minor fine to medium grained siltstone nodules. Subangular to angular.		F						100											
				58.2			... at 2.15m, With trace manganese.								100											
		3.0	SPT: N* = 13 (1, 2 / 2, 3, 4, 4)				CH: Silty CLAY: Dark brownish red mottled greenish grey and yellowish brown. High plasticity. With trace manganese and limonite staining. (Hukerenui Mudstone)		St						100											
					3		Completely to highly weathered, dark reddish brown and greenish grey, massive SILTSTONE : Extremely weak. Recovered as Clayey SILT with minor fine sand. Low plasticity. With trace fine gravel sized white MUDSTONE clasts, Subangular. (Hukerenui Mudstone)								100											
		4.5	SPT: N* = 12 (1, 2 / 2, 3, 3, 4)												100											
					4										100											
					5										81											
		6.0	SPT: N* = 30 (3, 5 / 6, 8, 8, 8)				... at 6.10m, Becoming dark greenish grey with trace reddish brown streaks.		VSt						100											
					6		... at 6.50m, Becoming blocky in structure. Tightly interlocking fabric.								81											
					7										76											
		7.5	SPT: N* = 27 (5, 6 / 6, 7, 7, 7)												89											
					8										76											
				52.2			Highly weathered, greenish grey, interbedded SILTSTONE: Extremely weak. Interbedded with MUDSTONE. (Mangakahia Complex)								57											
		9.0	SPT: N* = 27 (2, 3 / 4, 5, 7, 11)												100											
					9										76											
				50.8	10		Highly weathered, grey and trace brown, massive MUDSTONE: Extremely weak. Trace fine gravel sized silt clasts, subangular. (Hukerenui Mudstone)								76											

Termination Reason: Target Depth Reached.

Shear Vane No: DCP No:

Remarks: Groundwater not encountered.

BOREHOLE LOG - MH02-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 14/01/2025
Borehole Location: Refer to Site Plan



Logged by: JH Checked by: MJC Scale: 1:50 Sheet 2 of 2

Position: 388502.9mE; 829718.5mN Projection: EDENTM2000 Survey Source: Handheld GPS
Elevation: 60.75m Datum: AUCKHT1946

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/ Relative Density	Weathering							Recovery	RQD	Estimated Strength					Defect Spacing (mm)					Drilling Method/ Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Depth	Type & Results							RS	CW	HW	MW	SW	UW	EW			W	MS	S	VS	ES	<20	20-60	60-200	200-600	600-2000			>2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		10.5	SPT: N* = 23 (4, 4 / 5, 5, 6, 7)				... at 10.50m, Becoming greenish grey and brown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</

Termination Reason: Target Depth Reached.
Shear Vane No: DCP No:
Remarks: Groundwater not encountered.
This report is based on the attached field description for soil and rock, CMW Geosciences - Field Logging Guide, Revision 4 - April 2023.

PHOTOGRAPH SHEET - MH02-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 14/01/2025



MH02-25: 0.00m - 2.55m



MH02-25: 2.55m - 5.55m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH02-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 14/01/2025



MH02-25: 5.55m - 10.15m



MH02-25: 10.15m - 13.95m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH02-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 14/01/2025



MH02-25: 13.95m - 17.30m



MH02-25: 17.30m - 19.50m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

BOREHOLE LOG - MH03-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 16/01/2025



Borehole Location: Refer to Site Plan

Logged by: JH


Checked by: MJC Scale: 1:50

Sheet 1 of 2

Position: 388549.1mE; 829539.8mN
Elevation: 63.30m

Projection: EDENTM2000
Datum: AUCKHT1946

Survey Source: Handheld GPS

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/Relative Density	Weathering							Recovery	RQD	Estimated Strength					Defect Spacing (mm)					Drilling Method/Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Depth	Type & Results							RS	CW	HW	MW	SW	UW	EW			VW	W	MS	S	VS	ES	<20	20-40	40-60	60-100			100-2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		1.5	SPT: N* = 4 (1, 0 / 1, 1, 1, 1)	63.3 63.0	1		OL: Organic Clayey SILT : Dark brown. Low plasticity. Trace rootlets. (Topsoil) Clayey SILT : Yellowish brown mottled grey. Low plasticity. Trace limonite staining. (Hukerenui Mudstone) ... at 1.20m, Becoming grey mottled yellowish brown. ... at 2.00m, Minor decomposing tree roots.		VSt							80																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Termination Reason: Target Depth Reached.

Shear Vane No: DCP No:

Remarks: Groundwater not encountered.

BOREHOLE LOG - MH03-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 16/01/2025



Borehole Location: Refer to Site Plan Logged by: JH Checked by: MJC Scale: 1:50 Sheet 2 of 2

Position: 388549.1mE; 829539.8mN Projection: EDENTM2000
Elevation: 63.30m Datum: AUCKHT1946

Survey Source: Handheld GPS

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/Relative Density	Weathering					Recovery	RQD	Estimated Strength					Defect Spacing (mm)	Drilling Method/Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks	
		Depth	Type & Results							RS	CW	HW	MW	SW			UW	EW	WV	W	MS				S
		10.5	SPT: N* = 28 (3, 4 / 4, 7, 7, 10)		11										100									SPT	10.5m:1,DI,15°,VW,
		12.0	SPT: N* = 50+ (8, 11 / 15, 18, 17 for 50mm)	52.2	12	XXXXXX XXXXXX																			

Termination Reason: Target Depth Reached.

Shear Vane No: DCP No:

Remarks: Groundwater not encountered.

PHOTOGRAPH SHEET - MH03-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 16/01/2025



MH03-25: 0.00m - 2.70m



MH03-25: 2.70m - 6.45m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH03-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 16/01/2025



MH03-25: 6.45m - 10.00m

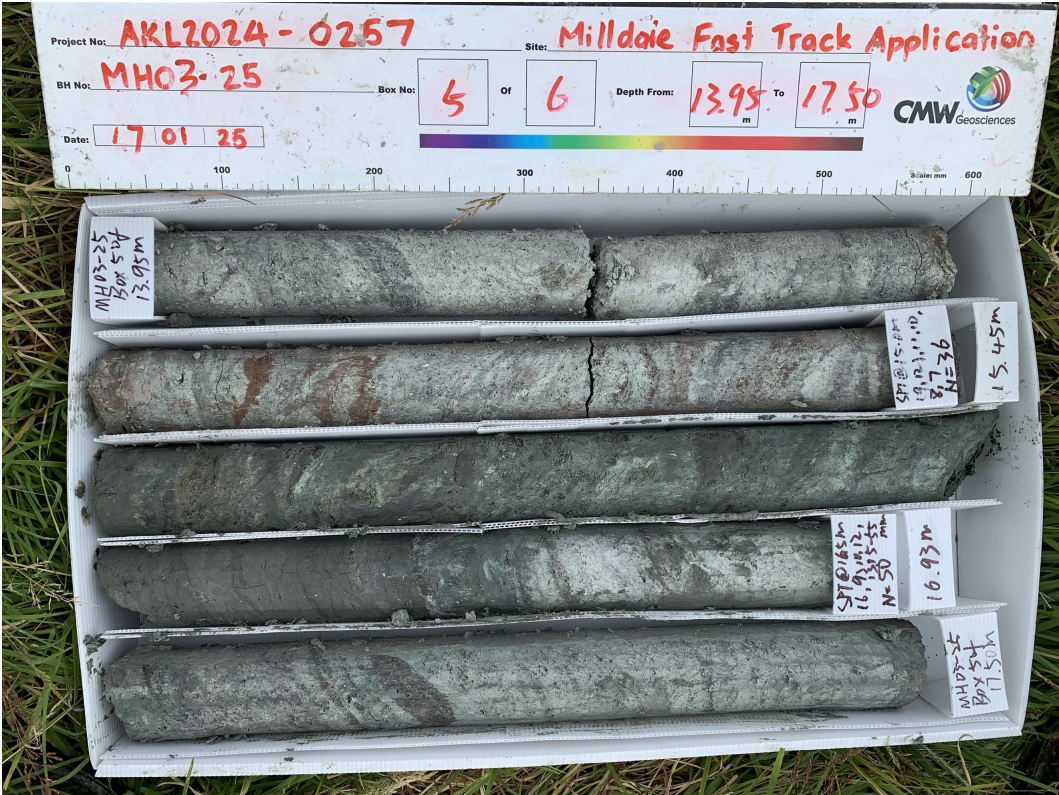


MH03-25: 10.00m - 13.95m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH03-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 16/01/2025



MH03-25: 13.95m - 17.50m



MH03-25: 17.50m - 19.50m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 17/01/2025



Sheet 1 of 3

Survey Source: Handheld GPS

Termination Reason: Target Depth Reached.
Shear Vane No: DCP No:
Remarks: Groundwater not encountered.

This report is based on the attached field description for soil and rock, CMW Geosciences - Field Logging Guide, Revision 4 - April 2023.

BOREHOLE LOG - MH04-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 17/01/2025
Borehole Location: Refer to Site Plan



Logged by: JH Checked by: MJC Scale: 1:50 Sheet 2 of 3

Position: 388553.5mE; 829329.9mN Projection: EDENTM2000 Survey Source: Handheld GPS
Elevation: 77.50m Datum: AUCKHT1946

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/Relative Density	Weathering					Recovery	RQD	Estimated Strength					Defect Spacing (mm)					Drilling Method/Support	Structure & Other Observations Discontinuities: Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks
		Depth	Type & Results							RS	CW	HW	MW	SW			UW	EW	W	MS	S	VS	ES	<20	20-60	60-200		
		10.5	SPT: N* = 50+ (6, 12 / 13, 14, 14, 9 for 35mm)	66.5	11		Moderately weathered, grey and brown, interbedded MUDSTONE: Extremely weak. Interbedded with SANDSTONE. Sand is fine grained. (Hukerenui Mudstone)								100												SPT	17.8-18.0m:1,CN,80°,CL
		12.0	SPT: N* = 39 (4, 5 / 9, 9, 9, 12)		12											100	100										TT / HQ3	
					13											57	57										TT / HQ3	
		13.5	SPT: N* = 23 (2, 2 / 5, 5, 6, 7)		14											100											SPT	
					15										100											TT / HQ3		
		15.0	SPT: N* = 20 (3, 3 / 4, 4, 5, 7)		16										100	100										SPT		
				61.4	16		Moderately weathered, light grey, massive SANDSTONE: Extremely weak. Minor grey streaks. Sand is fine grained. (Northland Allochthon)								100											TT / HQ3		
		16.5	SPT: N* = 28 (6, 6 / 6, 7, 7, 8)	60.6	17		Moderately weathered, brown and grey, tightly interlocked MUDSTONE: Extremely weak. Trace light grey streaks. Minor fine to medium sized silt clasts, subangular. (Hukerenui Mudstone)								100											SPT		
					18		... at 17.80m, Becoming grey with brown streaks.								100											TT / HQ3		
		18.0	SPT: N* = 50+ (4, 6 / 9, 11, 14, 16 for 50mm)		19										100											SPT		
					20										100	100										TT / HQ3		
		19.5	SPT: N* = 50+ (4, 6 / 12, 16, 22 for 35mm)	57.5	20		Moderately weathered, grey, massive SANDSTONE: Extremely weak. Sand is fine grained. (Northland Allochthon)								100											SPT		

Termination Reason: Target Depth Reached.
Shear Vane No: DCP No:
Remarks: Groundwater not encountered.
This report is based on the attached field description for soil and rock, CMW Geosciences - Field Logging Guide, Revision 4 - April 2023.

BOREHOLE LOG - MH04-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Site Location: Wainui East
Project No.: AKL2024-0257
Date: 17/01/2025
Borehole Location: Refer to Site Plan



Logged by: JH Checked by: MJC Scale: 1:50 Sheet 3 of 3

Position: 388553.5mE; 829329.9mN Projection: EDENTM2000 Survey Source: Handheld GPS
Elevation: 77.50m Datum: AUCKHT1946

Well	Groundwater	Samples & Insitu Tests		RL (m)	Depth (m)	Graphic Log	Material Description Soil: Soil symbol; soil type; colour; structure; bedding; plasticity; sensitivity; additional comments. (origin/geological unit) Rock: Colour; fabric; rock name; additional comments. (origin/geological unit)	Moisture Condition	Consistency/ Relative Density	Weathering					Recovery	RQD	Estimated Strength					Defect Spacing (mm)	Drilling Method/ Support	Structure & Other Observations Discontinuities; Depth; Defect Number; Defect Type; Dip; Defect Shape; Roughness; Aperture; Infill; Seepage; Spacing; Block Size; Block Shape; Remarks	
		Depth	Type & Results							RS	CW	HW	MW	SW			UW	EW	W	MS	S				VS
		21.0	SPT: N* = 46 (4, 6 / 6, 9, 11, 20)	56.8	21		Moderately weathered, brown, blocky MUDSTONE: Extremely weak. Trace fine to medium gravel sized silt clasts, subangular. (Hukerenui Mudstone)								100	100								TT / HQ3	20.7-20.8m:1,CN,45°,CL
							Borehole terminated at 21.45 m								100									SPT	
					22																				
					23																				
					24																				
					25																				
					26																				
					27																				
					28																				
					29																				
					30																				

Termination Reason: Target Depth Reached.
Shear Vane No: DCP No:
Remarks: Groundwater not encountered.

This report is based on the attached field description for soil and rock, CMW Geosciences - Field Logging Guide, Revision 4 - April 2023.

PHOTOGRAPH SHEET - MH04-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 17/01/2025



MH04-25: 0.00m - 3.00m



MH04-25: 3.00m - 6.45m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

PHOTOGRAPH SHEET - MH04-25

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 17/01/2025



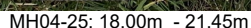
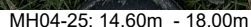
MH04-25: 6.45m - 10.40m



MH04-25: 10.40m - 14.60m

This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.

Client: Fulton Hogan Land Development Limited
Project: Milldale Fast Track Application
Location: Wainui East
Project ID: AKL2024-0257
Date: 17/01/2025



This borehole report must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination.