

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 31.5m to 33.2m



Depth: 33.2m to 35.2m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 35.2m to 37.3m



Depth: 37.3m to 39m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12 June 2024

End Date

14 June 2024

Title:

MDD333 - CORE PHOTOGRAPHS



Depth: 39m to 40.8m



Depth: 40.8m to 42.8m

EGL Geotechnical, Earthquake and Dam Engineers SANTANA MINERALS LIMITED		EGL Job No.		9702	
		Location:		Bendigo-Ophir Gold Project	
		Start Date	12 June 2024	End Date	14 June 2024
Title:	MDD333 - CORE PHOTOGRAPHS				
					
Depth: 42.8m to 45.0m					

EGL - Rock Log v7 (test- inclined hole) - 17/07/2025 10:02:57 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG			DRILLHOLE No.: MDD362 SHEET 1 OF 8 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316258.0 North 5018870.0 GRID: NZTM 2000			RL GROUND: 731.8 DATUM: NZVD 2016			HOLE STARTED: 27/08/2024 HOLE FINISHED: 04/09/2024 HOLE DEPTH: 35.0m INCLINATION: Vertical ORIENTATION:										
Core Description			Rock Defects			Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
						2 5 10 20 30				25 50 75					25 50 75	
TS	Topsoil, damp, semi compact, dark brown .			TS												
Alluvium	Sandy SILT; dark green grey. Wet, soft.										0.40	0				
	Sandy GRAVEL; light green cream. Dry, loose. Gravels; medium to coarse, sub angular.										0.40	0				
	Medium sandy GRAVEL; light green cream. Moist, loose. Gravels; medium, sub angular.										0.20	0				
	SILT; dark brown. Moist, stiff.		731								0.50	0				N = 4 (C) 1.00m 1, 1, 1, 1, 1, 1
	SILT; light green brown. Moist, firm, moderately plastic.										0.20	0				
	GRAVEL some silt and fine sand; light green cream. Moist, loose, non plastic. Gravels; medium to coarse, rounded.		730								0.20	0				
											0.30	0				
											0.45	0				N = 14 (C) 2.00m 3, 3, 2, 3, 4, 5
											0.25	0				
											0.10	0				
	Coarse sandy GRAVEL; light grey white. Moist, loose, non-plastic. Gravel; medium, rounded to angular.										0.10	0				
	Dark green grey.										0.10	0				
	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; coarse, angular.			CL							0.45	0				N = 29 (C) 3.00m 3, 4, 6, 8, 8, 7
	Core Loss.										0.15	0				
	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; coarse, angular.										0.10	0				
	Core Loss.										0.10	0				
	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular.		728	CL							0.10	0				
	Core Loss.										0.45	0				
	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular.										0.10	0				
	Core Loss.										0.20	0				
	GRAVEL some silt and fine sand; white, orange, black and light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular, washed quartz and schist.			CL							0.10	0				
	Core Loss.										0.10	0				
			727	CL							0.10	0				N = 19 (C) 4.00m 4, 4, 4, 5, 5, 5
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui			DRILLER: Alton Drilling							
						CHECKED: EGL			DRILL TYPE:							



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ROCK LOG

DRILLHOLE No.: MDD362

SHEET 2 OF 8

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316258.0 North 5018870.0
GRID: NZTM 2000
RL GROUND: 731.8
DATUM: NZVD 2016

HOLE STARTED: 27/08/2024
HOLE FINISHED: 04/09/2024
HOLE DEPTH: 35.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description			Rock Defects				Drilling & Testing								
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular.															N = 23 (C) 5.00m 3, 4, 4, 5, 6, 8
	Gravelly CLAY; orange. Moist. Gravels; medium, subrounded to angular. Core Loss.															
			726													
	Gravelly CLAY; grey. Moist, very stiff. Gravels; coarse, subangular to angular.	6														N = 50 (C) 6.00m 11, 12, 19, 31, 0, 0
	Core Loss.															
			725													
	Gravelly CLAY; grey. Moist, very stiff. Gravels; coarse, subangular to angular.	7														N = 40 (C) 7.00m 24, 24, 33, 7, 0, 0
	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm Core Loss.															
			724													
	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm Core Loss.	8														N = 50 (C) 8.00m 18, 18, 50, 0, 0, 0
MS	Washed Pelitic Schist fragments, grey, tabular up to 30mm by 20mm															
			723													
		9														
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation															N = 50 (C) 9.00m 18, 18, 28, 22, 0, 0
		722														

NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaniui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:

EGL - Rock Log v7 (test- inclined hole) - 17/07/2025 10:02:57 am - Produced with Core-GS by Geroc

EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG				DRILLHOLE No.: MDD362 SHEET 3 OF 8 Job No.: 9702								
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316258.0 North 5018870.0 GRID: NZTM 2000				RL GROUND: 731.8 DATUM: NZVD 2016				HOLE STARTED: 27/08/2024 HOLE FINISHED: 04/09/2024 HOLE DEPTH: 35.0m INCLINATION: Vertical ORIENTATION:								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Washed Pelitic Schist fragments, grey, tabular up to 30mm by 20mm															N = 39 (C) 10.00m 8, 9, 7, 9, 9, 14
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation				Joint, smooth, . Joint, smooth, .											
	Pelitic Schist fragments, grey, polyhedral up to 20mm	11	721													N = 50 (C) 11.00m 14, 15, 27, 23, 0, 0
	Core Loss.		720	CL												
	Pelitic Schist fragments, grey, polyhedral up to 20mm	12														N = 50 (C) 12.00m 6, 7, 12, 18, 20, 0
		Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation				Joint, . Joint, . Crush Zone, rough, . Joint; α90°, planar, narrow: 6-20mm, clean, .										
				718												
					Crush Zone; α90°, smooth, planar, clay/gouge, . Crush Zone, .											
					lamination, rough, .											
			717													
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								



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ROCK
LOG

DRILLHOLE No.: MDD362

SHEET 4 OF 8

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316258.0 North 5018870.0
GRID: NZTM 2000
RL GROUND: 731.8
DATUM: NZVD 2016

HOLE STARTED: 27/08/2024
HOLE FINISHED: 04/09/2024
HOLE DEPTH: 35.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing												
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		CORE LOSS (%)	CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
						2	5	10	20	50		PT LOAD / UCS (MPa)	25		50	75				
TZ3	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation	16	716		Crush Zone; α90°, planar, rock fragments, . Joint, .		UW	S							0.35	0				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	16	715		Crush Zone; α90°, smooth, planar, narrow: 6-20mm, clean, . Shear Zone, smooth, .										0.95	61				
		17	714		lamination; α90°, rough, planar, rock fragments, . Joint, .										0.40	100				
		18	713		Joint; α90°, smooth, planar, rock fragments, . Joint; α50°, smooth, planar, narrow: 6-20mm, clean, .										0.20	65				
		19	712												0.25	0				
															0.45	87				
															0.65	85				
															0.70	100				
															0.85	94				
															0.85	94				
															0.85	94				
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															0.85	94				

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui
CHECKED: EGL
DRILLER: Alton Drilling
DRILL TYPE:



Job No.: 9702

HOLE STARTED: 27/08/2024
HOLE FINISHED: 04/09/2024
HOLE DEPTH: 35.0m
INCLINATION: Vertical
ORIENTATION:

DRILL TYPE:

EGL - Rock Log v7 (test- inclined hole) - 17/07/2025 10:02:57 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG		DRILLHOLE No.: MDD362 SHEET 6 OF 8 Job No.: 9702											
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316258.0 North 5018870.0 GRID: NZTM 2000			RL GROUND: 731.8 DATUM: NZVD 2016		HOLE STARTED: 27/08/2024 HOLE FINISHED: 04/09/2024 HOLE DEPTH: 35.0m INCLINATION: Vertical ORIENTATION:											
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
						2 5 10 20 30				25 50 75						
TZ4	Sandy CLAY fault gauge, trace polyhedral schist fragments up to 10mm		706								0.55	96				
	Micaceous Carbonate breccia, black.		705								0.65	100				
	Micaceous Carbonate breccia, light cream.		704		Joint; α30°, planar, .						0.70	100				
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation		703		Crush Zone; α45°, smooth, planar, narrow: 6-20mm, clean, .						1.40	93				
	Core Loss.		702								0.15	0				
	Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal to gently inclined foliation		702		Joint; α90°, smooth, planar, moderately wide: 60-200mm, clay/gouge, .						0.65	0				
			702		Joint; α65°, smooth, planar, clean, .						1.55	80				
			702		Crush Zone; α45°, planar, .											
			702		Joint; α40°, slickensided, planar, .											
			702		Joint; α30°, smooth, undulating, clay/gouge, .											
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template						LOGGED: Matakanui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								



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ROCK
LOG

DRILLHOLE No.: MDD362

SHEET 7 OF 8

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316258.0 North 5018870.0
GRID: NZTM 2000

RL GROUND: 731.8
DATUM: NZVD 2016

HOLE STARTED: 27/08/2024
HOLE FINISHED: 04/09/2024
HOLE DEPTH: 35.0m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description			Rock Defects			Drilling & Testing									
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
	Pelitic Schist, grey and dark grey. Slightly deformed subhorizontal to gently inclined foliation					2 5 10 20 30 40 50										

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG		DRILLHOLE No.: MDD362 SHEET 8 OF 8 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316258.0 North 5018870.0 GRID: NZTM 2000				RL GROUND: 731.8 DATUM: NZVD 2016				HOLE STARTED: 27/08/2024 HOLE FINISHED: 04/09/2024 HOLE DEPTH: 35.0m INCLINATION: Vertical ORIENTATION:								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						2 5 10 20 50				25 50 75		25 50 75				
EOH: 35.00 m																
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template LOGGED: Matakanui CHECKED: EGL DRILLER: Alton Drilling DRILL TYPE:																

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024
Title:	MDD362 - CORE PHOTOGRAPHS				



Depth: 0 m to 1.3m



Depth: 1.3 m to 3 m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD362 - CORE PHOTOGRAPHS
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Depth: 3m-6m



Depth: 6m-8.65m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD362 - CORE PHOTOGRAPHS
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Depth: 8.65m-10m



Depth: 10 m-12.35 m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD362 - CORE PHOTOGRAPHS
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Depth: 12.35m-14.45m



Depth: 14.45m-16.8m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024
Title:	MDD362 - CORE PHOTOGRAPHS				



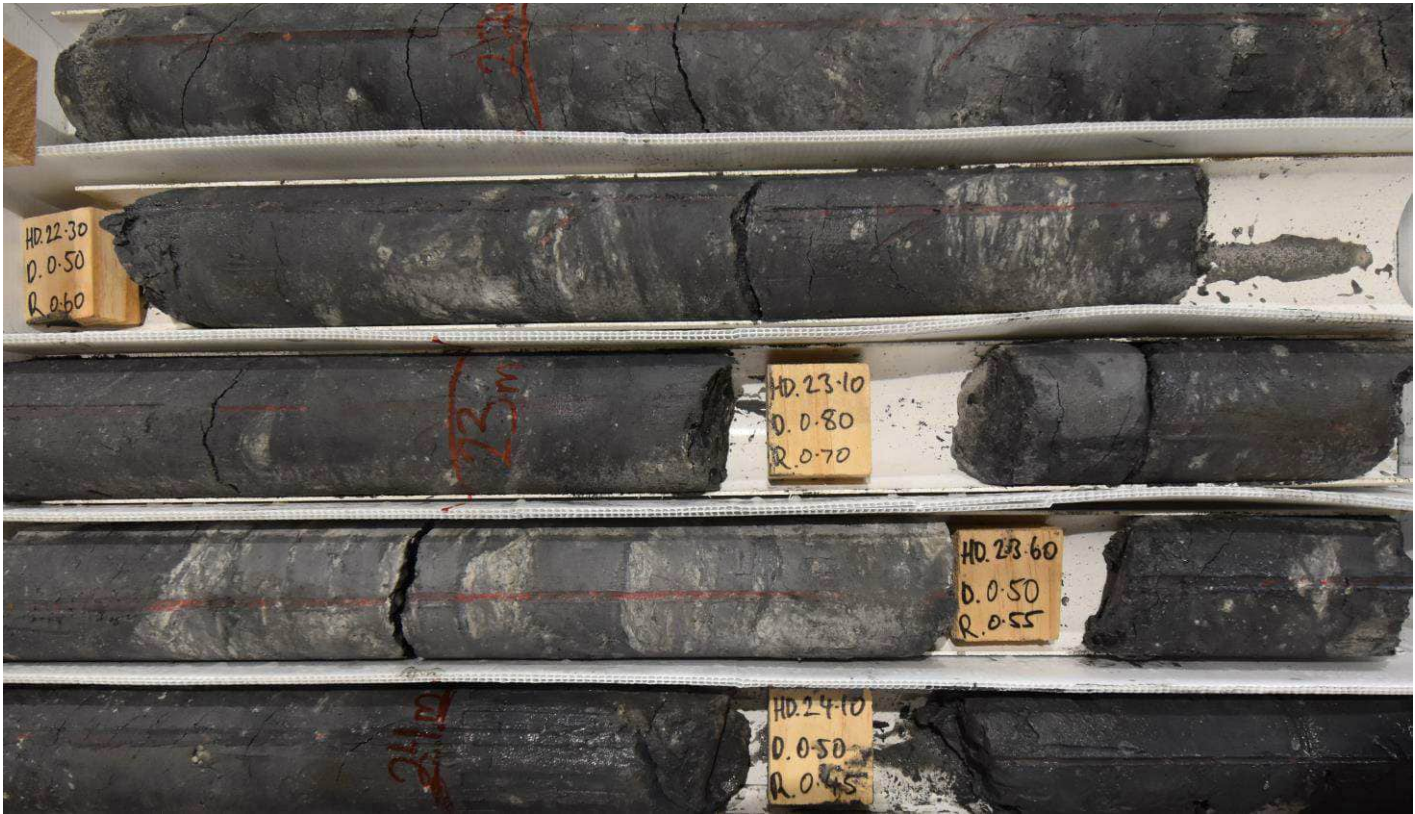
Depth: 16.8 m-19.35m



Depth: 19.35m-21.8m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD362 - CORE PHOTOGRAPHS
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Depth: 21.8m-24.3m

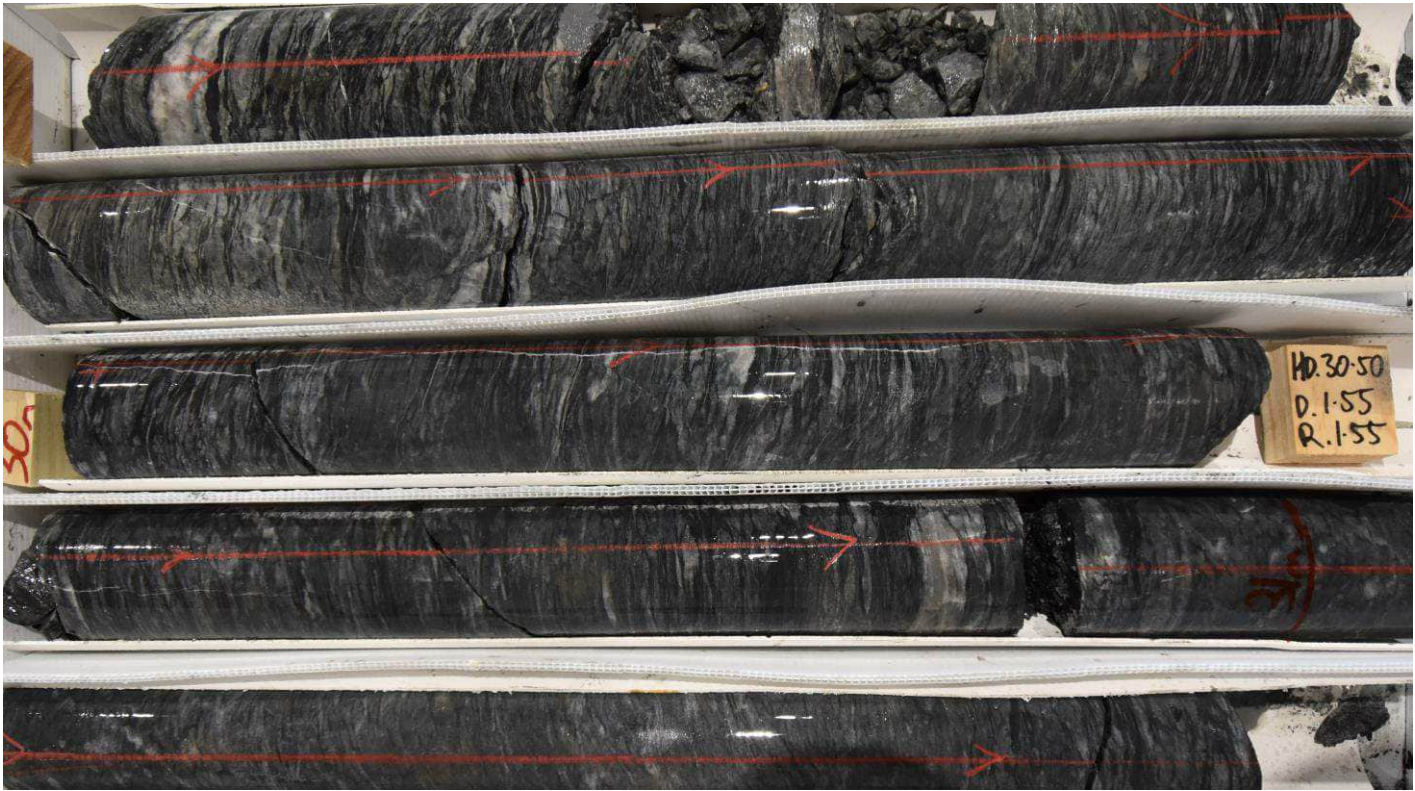


Depth: 24.3m – 26.55m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024
Title:	MDD362 - CORE PHOTOGRAPHS				



Depth: 26.55m-29m



Depth: 29m-31.60m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD362 - CORE PHOTOGRAPHS
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Depth: 31.60m-34.35m



Depth: 34.35m-35m

EGL - Rock Log v7 (test- inclined hole) - 17/07/2025 10:01:48 am - Produced with Core-GS by Geroc

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PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316751.0 North 5018614.7 GRID: NZTM 2000			RL GROUND: 766.2 DATUM: NZVD 2016		HOLE STARTED: 05/09/2024 HOLE FINISHED: 19/09/2024 HOLE DEPTH: 44.3m INCLINATION: Vertical ORIENTATION:													
Core Description			Rock Defects		Drilling & Testing													
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS		
						2 5 10 20 30				25 50 75					25 50 75			
Alluvium	Silty GRAVEL; brown. Dry, loose, non-plastic.		766								0.40	0						
											0.35	0						
	Silty coarse SAND some coarse gravel; brown. Moist, loose.	1	765									0.45	0				N = 15 (C) 1.00m 3, 3, 4, 3, 4, 4	
											0.20	0						
	Silty GRAVEL; brown. Dry, loose, non-plastic.										0.30	0						
											0.45	0						
	Silty coarse SAND some coarse gravel; brown. Moist, loose.	2	764								0.10	0					N = 12 (C) 2.00m 3, 3, 4, 3, 2, 3	
											0.45	0						
	Silty GRAVEL; brown. Dry, loose, non-plastic.										0.45	0						N = 13 (C) 3.00m 2, 3, 4, 3, 3, 3
											0.10	0						
TZ3	Silty fine SAND; brown. Moist, loose.	3	763								0.45	0						
											0.30	0						
	Silty GRAVEL; brown. Dry, loose, non-plastic.										0.15	0						
											0.45	0						
	Silty fine to coarse SAND; brown. Moist, loose.	4	762								0.15	0					N = 12 (C) 4.00m 2, 3, 3, 3, 3, 3	
											0.45	0						
	Clayey Gravel with some coarse sand; brown. Moist.										0.15	0						
											0.40	0						
	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm																	
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template					LOGGED: Matakanui		DRILLER: Alton Drilling											
					CHECKED: EGL		DRILL TYPE:											

EGL - Rock Log v7 (test- inclined hole) - 17/07/2025 10:01:48 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG				DRILLHOLE No.: MDD365 SHEET 2 OF 9 Job No.: 9702								
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1316751.0 North 5018614.7 GRID: NZTM 2000				RL GROUND: 766.2 DATUM: NZVD 2016				HOLE STARTED: 05/09/2024 HOLE FINISHED: 19/09/2024 HOLE DEPTH: 44.3m INCLINATION: Vertical ORIENTATION:								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular.		761								0.45	0				N = 23 (C) 5.00m 5, 6, 5, 5, 6, 7
	Washed Pelitic Schist fragments, grey, tabular up to 60mm by 20mm										0.35	0				
			6								0.20	0				
	GRAVEL some silt and fine sand; light brown. Moist, loose, non plastic. Gravels; medium to coarse, angular.		760								0.45	0				N = 29 (C) 6.00m 4, 4, 6, 6, 6, 7, 10
											0.25	0				
			7								0.30	0				
			759								0.45	0				N = 33 (C) 7.00m 7, 7, 6, 8, 8, 7, 12
											0.35	0				
			8								0.20	0				
			758								0.45	0				N = 50 (C) 8.00m 7, 7, 8, 13, 15, 14
										0.15	0					
										0.20	0					
										0.20	0					
										0.45	0					N = 23 (C) 9.00m 4, 4, 5, 5, 5, 6, 7
										0.15	0					
										0.20	0					
										0.45	0					
	Gravelly CLAY; grey. Moist, very stiff. Gravels; coarse, subangular to angular.		757													
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								



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ROCK
LOG

DRILLHOLE No.: MDD365

SHEET 3 OF 9

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316751.0 North 5018614.7
GRID: NZTM 2000
RL GROUND: 766.2
DATUM: NZVD 2016

HOLE STARTED: 05/09/2024
HOLE FINISHED: 19/09/2024
HOLE DEPTH: 44.3m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing																																					
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS																													
TZ3	Gravelly CLAY; grey. Moist, very stiff. Gravels; coarse, subangular to angular.		756			2										N = 24 (C) 10.00m 4, 4, 5, 6, 6, 7																													
	Pelitic Schist fragments, grey, polyhedral up to 20mm																										N = 36 (C) 11.00m 4, 5, 9, 10, 9, 8																		
		11	755																										N = 50 (C) 12.00m 7, 7, 9, 12, 13, 16																
																														N = 50 (C) 13.00m 6, 7, 8, 12, 22, 8															
		12	754																												N = 27 (C) 14.00m 5, 5, 6, 7, 7, 7														

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui
CHECKED: EGL
DRILLER: Alton Drilling
DRILL TYPE:



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ROCK LOG

DRILLHOLE No.: MDD365

SHEET 4 OF 9

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316751.0 North 5018614.7
GRID: NZTM 2000
RL GROUND: 766.2
DATUM: NZVD 2016

HOLE STARTED: 05/09/2024
HOLE FINISHED: 19/09/2024
HOLE DEPTH: 44.3m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing														
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS			CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						2-5	5-10	10-20	20-30	25				50	75	25						
	Pelitic Schist fragments, grey, polyhedral up to 20mm		751								UW											N = 50 (C) 15.00m 7, 8 , 10, 18, 17, 5
			16								UW											N = 50 (C) 16.00m 7, 8 , 14, 22, 14, 0
			750								UW											N = 40 (C) 17.00m 7, 8 , 8, 9, 9, 14
			17								UW											N = 46 (C) 18.00m 7, 7 , 9, 11, 14, 12
			749								UW											N = 50 (C) 19.00m 7, 8 , 10, 15, 16, 9
			18								UW											
			748								UW											
			19								UW											
			747								UW											



Job No.: 9702

HOLE STARTED: 05/09/2024
HOLE FINISHED: 19/09/2024
HOLE DEPTH: 44.3m
INCLINATION: Vertical
ORIENTATION:

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGI	DRILL TYPE:	



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ROCK LOG

DRILLHOLE No.: MDD365

SHEET 6 OF 9

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316751.0 North 5018614.7
GRID: NZTM 2000
RL GROUND: 766.2
DATUM: NZVD 2016

HOLE STARTED: 05/09/2024
HOLE FINISHED: 19/09/2024
HOLE DEPTH: 44.3m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing															
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS		CORE LENGTH / TYPE		RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS		FIELD TESTS
						2	5	10	20	50				25	50	75	25				50	75	
	Sandy CLAY fault gauge, trace polyhedral schist fragments up to 10mm																						
			741								UW												N = 50 (C) 25.00m 9, 10, 8, 17, 14, 11
					Shear Zone, smooth, .						UW												
		26									UW												N = 50 (C) 26.00m 9, 9, 22, 23, 5, 0
			740								UW												
											UW												
											UW												
		27									UW												N = 0 (C) 27.00m 0, 0, 0, 0, 0, 0
			739								UW												
											W												
											UW												
											UW												
		28									UW												N = 50 (C) 28.00m 6, 6, 12, 18, 20, 0
			738								UW												
											UW												
											UW												
		29									UW												N = 50 (C) 29.00m 7, 8, 12, 13, 13, 12
			737								UW												

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui
CHECKED: EGL
DRILLER: Alton Drilling
DRILL TYPE:

EGL - Rock Log V7 (test- inclined hole) - 17/07/2025 10:01:48 am - Produced with Core-GS by Geroc



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ROCK LOG

DRILLHOLE No.: MDD365

SHEET 7 OF 9

Job No.: 9702

PROJECT: BOGP

LOCATION: Bendigo

COORDINATES: East 1316751.0 North 5018614.7

GRID: NZTM 2000

RL GROUND: 766.2

DATUM: NZVD 2016

HOLE STARTED: 05/09/2024

HOLE FINISHED: 19/09/2024

HOLE DEPTH: 44.3m

INCLINATION: Vertical

ORIENTATION:

Core Description				Rock Defects				Drilling & Testing														
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY					WEATHERING	ROCK STRENGTH		CORE LOSS		CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS		FIELD TESTS
						2	5	10	20	30		PT LOAD / UCS (MPa)		25	50	75					25	
TZ4	Sandy CLAY fault gauge, trace polyhedral schist fragments up to 10mm											W										
	Pelitic Schist, grey and dark grey. Moderately deformed gently to moderately inclined foliation		736		Joint, smooth, .							VS				1.00	40					
					Joint, .																	
					Joint, .																	
			31		Joint, rough, .																	
			735		Joint; α90°, planar, narrow: 6-20mm, clean, .					UW						1.00	20					
				Joint; α90°, smooth, planar, clay/gouge, .							VS											
				Bedding, .																		
		32																				
			734		Joint, rough, .																	
				Joint; α90°, planar, rock fragments, .																		
				Crush Zone, .																		
				Crush Zone; α90°, smooth, planar, narrow: 6-20mm, clean, .											1.00	35						
		33																				
			733		Joint, smooth, .																	
					Fractured Zone; α90°, rough, planar, rock fragments, .					UW												
					Joint, .						VS				1.00	33						
					Crush Zone; α90°, smooth, planar, rock fragments, .																	
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation	34			Joint; α50°, smooth, planar, narrow: 6-20mm, clean, .																	
			732																			
					Joint; α60°, rough, planar, clay/gouge, .					UW					1.50	40						

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

CHECKED: EGL

DRILLER: Alton Drilling

DRILL TYPE:



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ROCK LOG

DRILLHOLE No.: MDD365

SHEET 8 OF 9

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1316751.0 North 5018614.7
GRID: NZTM 2000
RL GROUND: 766.2
DATUM: NZVD 2016

HOLE STARTED: 05/09/2024
HOLE FINISHED: 19/09/2024
HOLE DEPTH: 44.3m
INCLINATION: Vertical
ORIENTATION:

GEOLOGICAL UNIT	Core Description			Rock Defects				Drilling & Testing									
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS	
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation				Lamination; α90°, planar, clay/gouge, . Joint; α30°, planar, . Joint; α45°, smooth, planar, narrow: 6-20mm, clean, . Joint; α90°, smooth, planar, moderately wide: 60-200mm, clay/gouge, . Joint; α65°, smooth, planar, clean, . Lamination; α45°, planar, . Crush Zone; α40°, slickensided, planar, . Fractured Zone; α30°, smooth, undulating, clay/gouge, . Lamination; α55°, planar, clay/gouge, . Joint; α40°, smooth, planar, clay/gouge, . Fractured Zone; α60°, smooth, planar, . Joint; α45°, planar, moderately narrow: 20-60mm, clean, . Joint; α90°, smooth, planar, clay/gouge, . Fractured Zone, . Shear Zone; α55°, rough, planar, clay/gouge, .												

NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaniui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:



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ROCK LOG

DRILLHOLE No.: MDD365

SHEET 9 OF 9

Job No.: 9702

PROJECT: BOGP

LOCATION: Bendigo

COORDINATES: East 1316751.0 North 5018614.7

GRID: NZTM 2000

RL GROUND: 766.2

DATUM: NZVD 2016

HOLE STARTED: 05/09/2024

HOLE FINISHED: 19/09/2024

HOLE DEPTH: 44.3m

INCLINATION: Vertical

ORIENTATION:

GEOLOGICAL UNIT	Core Description			Rock Defects				Drilling & Testing							
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)
	Pelitic Schist, grey and dark grey. Moderately deformed subhorizontal to gently inclined foliation				Joint; α90° , planar, clay/gouge, . <										

EOH: 44.30 m

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

CHECKED: EGL

DRILLER: Alton Drilling

DRILL TYPE:

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 0 m to 1.45m



Depth: 1.45 m to 2.45 m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 2.45m-3.45m



Depth: 3.45m-4m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024

Title:	MDD365 - CORE PHOTOGRAPHS
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Depth: 4.45m-5.45m



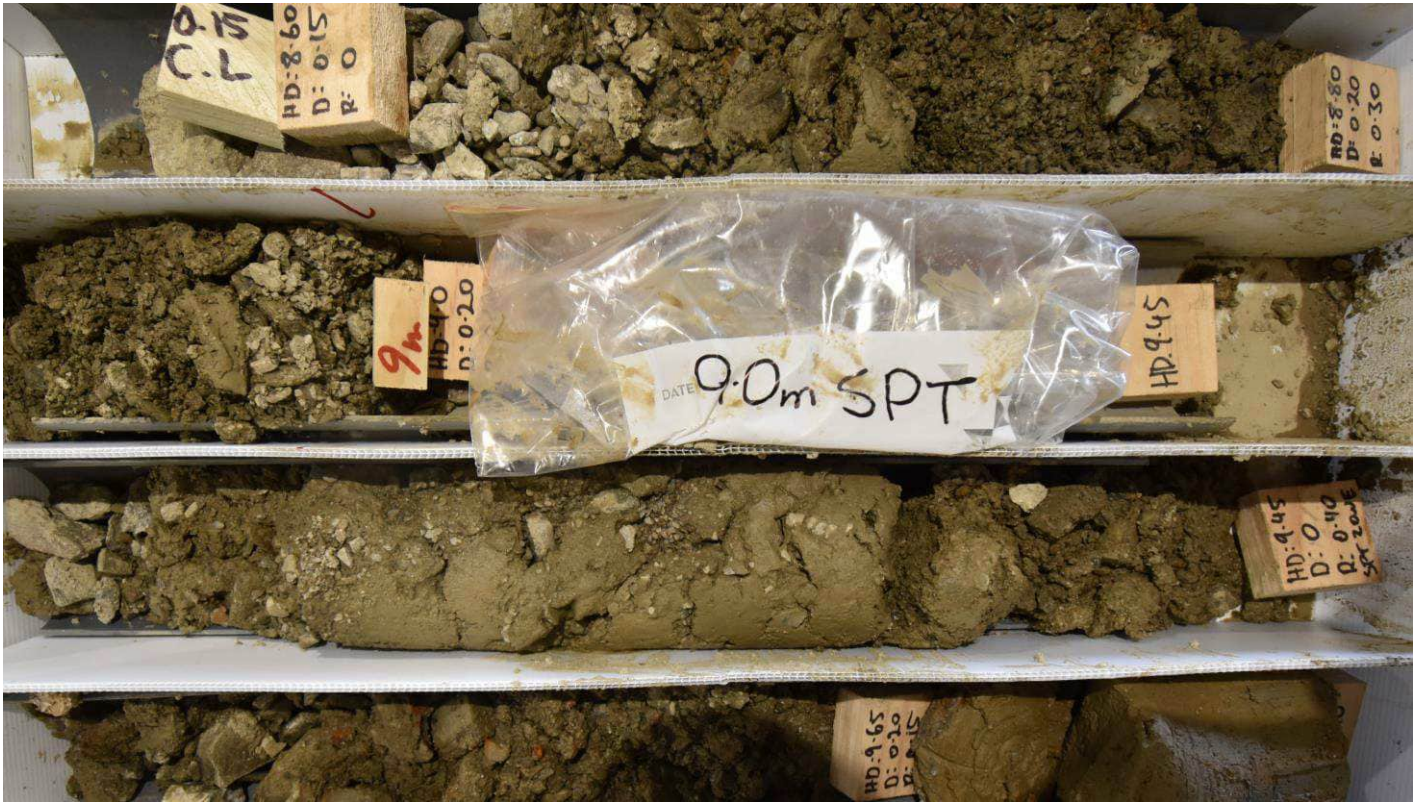
Depth: 5.45 m-6.90 m

Client:	Santana Minerals Limited	EGL Job No.	9702		
EGL Geotechnical, Earthquake and Dam Engineers Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		Location:	Bendigo – Ophir Gold Project		
		Photograph By:	JF	Date:	September 2024

Title:	MDD365 - CORE PHOTOGRAPHS
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Depth: 6.9m-8.45m



Depth: 8.6m-9.8m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 9.8 m-11.45m



Depth: 11.45m-12.45m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024

Title:	MDD365 - CORE PHOTOGRAPHS
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Depth: 12.45m-13.95m



Depth: 13.95m-15.75m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024

Title:	MDD365 - CORE PHOTOGRAPHS
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Depth: 15.75m-17.85m



Depth: 17.85m-20.35m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 20.35m-23m



Depth: 23m-25.85m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 25.85m-28m



Depth: 28m-30.25m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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	Photograph By:	JF	Date:	September 2024	
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 30.25m-32.7m



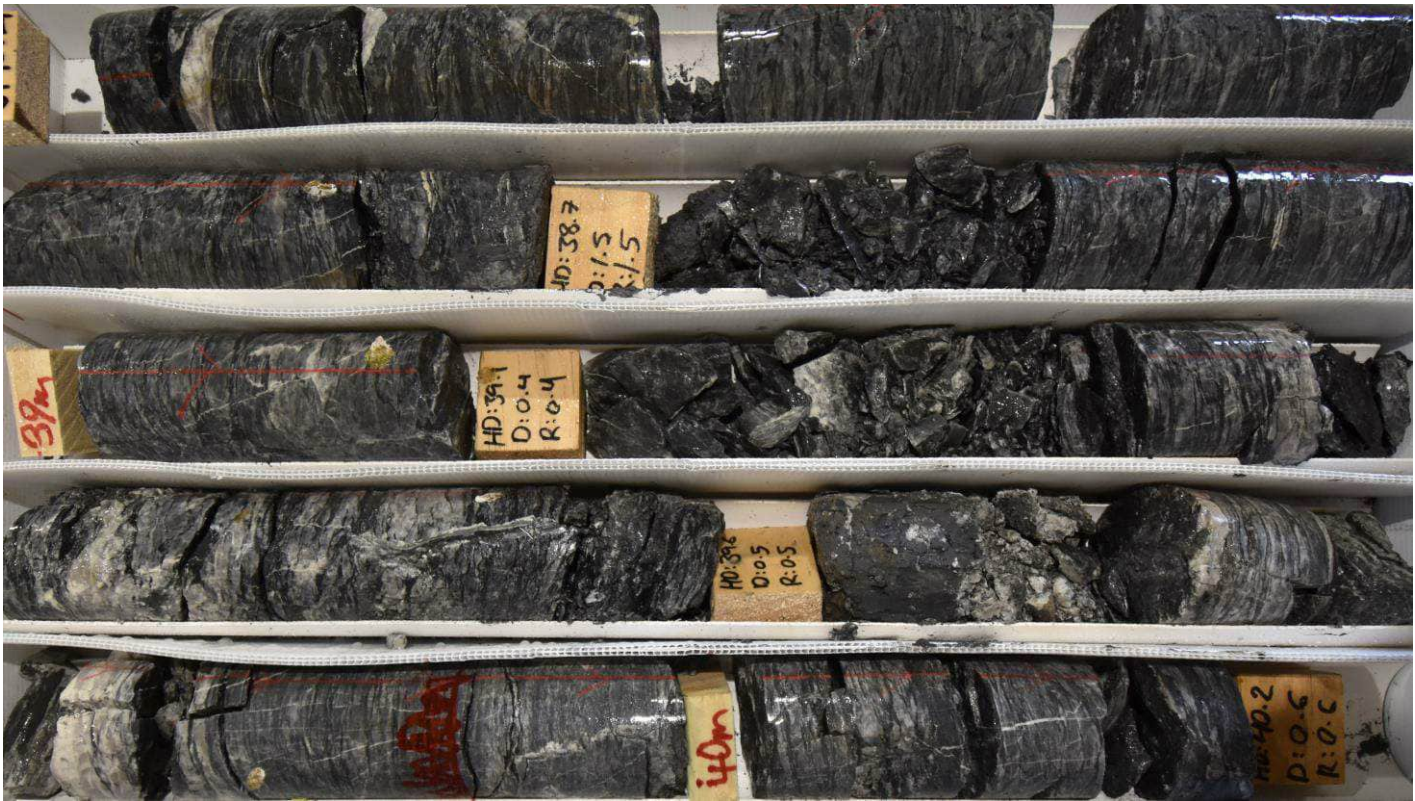
Depth: 32.7m-35.3m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024

Title:	MDD365 - CORE PHOTOGRAPHS
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Depth: 35.3m-38m



Depth: 38m-40.2m

Client:	Santana Minerals Limited	EGL Job No.	9702		
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		Photograph By:	JF	Date:	September 2024
Title:	MDD365 - CORE PHOTOGRAPHS				



Depth: 40.2m-41.3m



Depth: 41.3m-44.3m

EGL - Rock Log V7 (test- inclined hole) - 4/03/2025 10:15:02 am - Produced with Core-GS by Geoc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG		DRILLHOLE No.: MDD394 SHEET 1 OF 7 Job No.: 9702												
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319759.6 North 5017190.4 GRID: NZTM 2000			RL GROUND: 594.6 DATUM: NZVD 2016					HOLE STARTED: 07/12/2024 HOLE FINISHED: 10/12/2024 HOLE DEPTH: 30.0m INCLINATION: Vertical ORIENTATION:										
Core Description			Rock Defects					Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY		WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS		CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
						2	5				25	75						
TS	Topsoil, dark brown, paleo channel.												0.40	0				
	Silty Clay, light brown, very stiff.												0.40	0				
Alluvium			594					RS	EW				0.50	0				
		1											0.20	0				
			593										0.50	0				
		2											0.50	0				
TZ3	Completely weathered TZ3; silty Gravel, dark grey, fine grain schist, with high presence of sericite.		592					CW	VW				0.50	0				
	Highly weathered TZ3, dark grey, moderately strong. Broken with some intact pieces, well foliated.	3			Crush Zone, Rock fragments.			HW	MS				0.20	0				
	Unweathered Semi-psammitic TZ3, black and white, moderately strong to strong. Thin metamorphic quartz segregation zones of crush zone small to medium size chips.		591		Crush Zone, rock fragments.								0.80	21				
		4			Foliation Parting; α70°, smooth, planar, very narrow:				S									
			590		Fractured Zone, rock fragments.			UW					1.40	0				
					Joint, rock fragments.				MS									
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling										
						CHECKED: EGL		DRILL TYPE:										



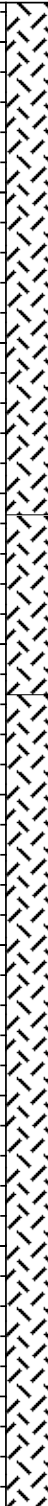
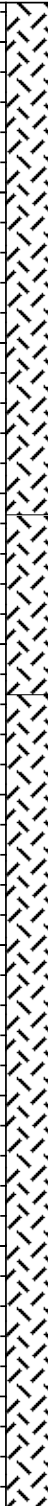
Job No.: 9702

HOLE STARTED:	07/12/2024
HOLE FINISHED:	10/12/2024
HOLE DEPTH:	30.0m
INCLINATION:	Vertical
ORIENTATION:	

[illegible]

DRILL TYPE:

EGL - Rock Log v7 (test- inclined hole) - 4/03/2025 10:15:02 am - Produced with Core-GS by Geoc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG			DRILLHOLE No.: MDD394 SHEET 3 OF 7 Job No.: 9702												
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319759.6 North 5017190.4 GRID: NZTM 2000			RL GROUND: 594.6 DATUM: NZVD 2016			HOLE STARTED: 07/12/2024 HOLE FINISHED: 10/12/2024 HOLE DEPTH: 30.0m INCLINATION: Vertical ORIENTATION:												
Core Description			Rock Defects			Drilling & Testing												
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS			
TZ3	Unweathered Semi pelitic/psammitic TZ3, black and white, strong. Well foliated and uniformed with minor deformation; occasional large chunks of met metamorphic quartz segregation.	584	11		Joint; α70°, rough, planar, rock fragments.													
					Crush Zone, rock fragments.													
					Joint; α40°, rough, planar.													
					Joint; α50°, smooth, planar.													
					Fractured Zone, rock fragments.													
					Fractured Zone, rock fragments.													
					Fractured Zone, rock fragments.													
					Joint; α50°, smooth, undulating.													
					Crush zone, dark grey, weak. Finely grained quartz, with minor presence of clay.													
					Unweathered Semi-psammitic TZ3, black and white, moderately strong. Occasional moderate chunks of metamorphic quartz segregation parallel to foliation, patches of broken crush zone.													
		583	12		Joint; α85°, rough, planar, rock fragments.													
					Crush Zone, rock fragments.													
					Crush Zone, rock fragments.													
					Joint; α50°, smooth, planar.													
					Crush Zone, rock fragments.													
					Joint; α50°, smooth, planar, very narrow.													
					Fractured Zone, rock fragments.													
					Joint; α30°, rough, planar, rock fragments.													
					Crush Zone, rock fragments.													
					Joint; α50°, rough, planar, rock fragments.													

NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaniui

CHECKED: EGL

DRILLER: Alton Drilling

DRILL TYPE:



Engineering Geology Ltd
+64 9 486 2546
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Unit 7C, 331 Rosedale Road, Albany, Auckland
PO Box 301054, Albany, Auckland 0752
www.egl.co.nz

ROCK LOG

DRILLHOLE No.: MDD394

SHEET 4 OF 7

Job No.: 9702

PROJECT: BOGP
LOCATION: Bendigo
COORDINATES: East 1319759.6 North 5017190.4
GRID: NZTM 2000
RL GROUND: 594.6
DATUM: NZVD 2016

HOLE STARTED: 07/12/2024
HOLE FINISHED: 10/12/2024
HOLE DEPTH: 30.0m
INCLINATION: Vertical
ORIENTATION:

Core Description				Rock Defects				Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
TZ3	Unweathered Semi-psammitic TZ3, black and white, weak to strong. Occasional moderate chunks of metamorphic quartz segregation parallel to foliation, patches of broken crush zone. Foliation with minor deformation, patches of large quartz segregation, schist is mainly intact with zones of broken clay material.	16	579		Crush Zone, rock fragments. Foliation Parting; α70°, rough, planar, very narrow. Joint; α80°, smooth, undulating. Joint; α70°, rough, undulating, rock fragments. Joint; α40°, smooth, undulating. Fractured Zone, rock fragments.	2 5 10 15 20 25	UW	MS	S	W	MS	VW	MS	MS	MS	MS	
											1.10	16					
											0.40	63					
											1.00	14					
											0.90	0					
											0.80	0					
											1.30	46					

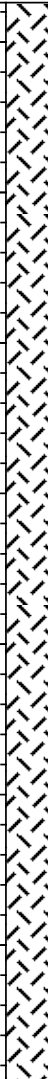
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaniui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG			DRILLHOLE No.: MDD394 SHEET 5 OF 7 Job No.: 9702									
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319759.6 North 5017190.4 GRID: NZTM 2000			RL GROUND: 594.6 DATUM: NZVD 2016			HOLE STARTED: 07/12/2024 HOLE FINISHED: 10/12/2024 HOLE DEPTH: 30.0m INCLINATION: Vertical ORIENTATION:									
Core Description			Rock Defects			Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Unweathered Semi-psammitic TZ3, black and white, strong. Foliation with minor deformation, patches of large quartz segregation, schist is mainly intact with zones of broken clay material. Minor patches of large metamorphic quartz segregation parallel to foliation with minor deformation and folding. Increase in presence of crush/shear zone, multiple zone of repeated joints parallel to foliation, some carbonate veining cross cutting foliation.	574	21		Foliation Parting; α45°, smooth, undulating, moderately narrow: 20-60mm. Joint; α20°, defined ridges, undulating. Foliation Parting; α65°, smooth, planar, moderately wide: 60-200mm. Foliation Parting; α35°, smooth, undulating, moderately narrow: 20-60mm. Joint; α40°, smooth, planar, clay/gouge. Joint; α80°, smooth, planar, clay/gouge. Foliation Parting; α55°, smooth, planar, moderately narrow: 20-60mm. Joint; α85°, smooth, planar. Joint; α45°, smooth, planar, rock fragments. Joint; α70°, smooth, planar.	2 5 10 20 30	UW	S	25 50 75	1.30 1.50 1.50 1.00	46 63 13 32			Groundwater Not Encountered	
	Core loss.	24			Joint; α75°, smooth, planar.										
TZ3	Unweathered Semi-psammitic TZ3, black and white, very weak. Increase in presence of crush/shear zone, multiple zone of repeated joints parallel to foliation, some carbonate veining cross cutting foliation, unit is mainly intact.	570			Fault; α45°, smooth, planar, clay/gouge. Joint; α25°, rough, curved, moderately narrow: 20-60mm, 0. Crush Zone; α70°, smooth, planar, clay/gouge. Foliation Parting; α70°, smooth, planar, moderately narrow: 20-60mm.		VW			1.00	0				
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template						LOGGED: Matakanui			DRILLER: Alton Drilling						
						CHECKED: EGL			DRILL TYPE:						



DRILLHOLE No.: MDD394
SHEET 6 OF 7
Job No.: 9702

RL GROUND: 594.6

DATUM: NZVD 2016

HOLE STARTED:	07/12/2024
HOLE FINISHED:	10/12/2024
HOLE DEPTH:	30.0m
INCLINATION:	Vertical
ORIENTATION:	

TZ3	Unweathered Semi-psammitic TZ3, black and white, very weak. Increase in presence of crush/shear zone, multiple zone of repeated joints parallel to foliation, some carbonate veining cross cutting foliation, unit is mainly intact.		rock fragments.	Joint; α55°, stepped, undulating, very narrow:	Vein, smooth, curved, narrow: 6-20mm, clay/gouge.	Crush Zone, rough, planar, moderately narrow: 20-60mm, carbonate.	Crush Zone, rough, wide: 200-600mm, rock fragments.	Fault, rough, planar, narrow: 6-20mm, rock fragments.	Vein, narrow: 6-20mm, Quartz.	UW				VW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGL	DRILL TYPE:	

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG		DRILLHOLE No.: MDD394 SHEET 7 OF 7 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319759.6 North 5017190.4 GRID: NZTM 2000			RL GROUND: 594.6 DATUM: NZVD 2016			HOLE STARTED: 07/12/2024 HOLE FINISHED: 10/12/2024 HOLE DEPTH: 30.0m INCLINATION: Vertical ORIENTATION:										
Core Description				Rock Defects			Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						2 5 10 20 50				25 50 75		25 50 75				
EOH: 30.00 m																
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template LOGGED: Matakanui CHECKED: EGL DRILLER: Alton Drilling DRILL TYPE:																

Title:

MDD394 - CORE PHOTOGRAPHS

Depth: 0m to 1.5m

Depth: 1.5m to 2.9 m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

7/12/2024

End Date

10/12/2024

Title:

MDD394 - CORE PHOTOGRAPHS



Depth: 2.9m to 3.8m



Depth: 3.8m to 5.3m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

7/12/2024

End Date

10/12/2024

Title:

MDD394 - CORE PHOTOGRAPHS



Depth: 5.3m to 7.0m



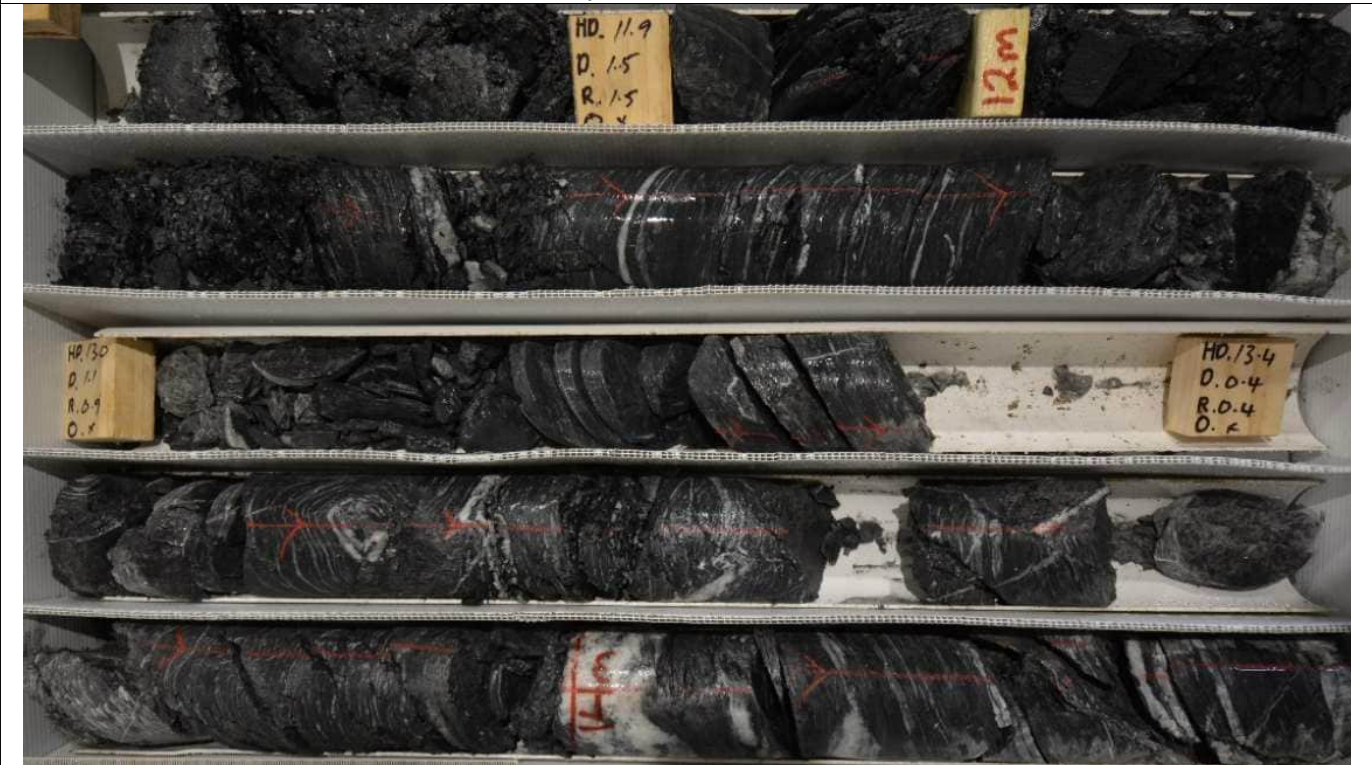
Depth: 7.0 to 9.2m

	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	7/12/2024	End Date	10/12/2024

Title:	MDD394 - CORE PHOTOGRAPHS
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Depth: 9.2m to 11.7m



Depth: 11.7m to 14.40m

	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	7/12/2024	End Date	10/12/2024

Title:	MDD394 - CORE PHOTOGRAPHS
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Depth: 14.4m to 16m



Depth: 16.0m to 18.5m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

7/12/2024

End Date

10/12/2024

Title:

MDD394 - CORE PHOTOGRAPHS



Depth: 18.5m to 21.0m

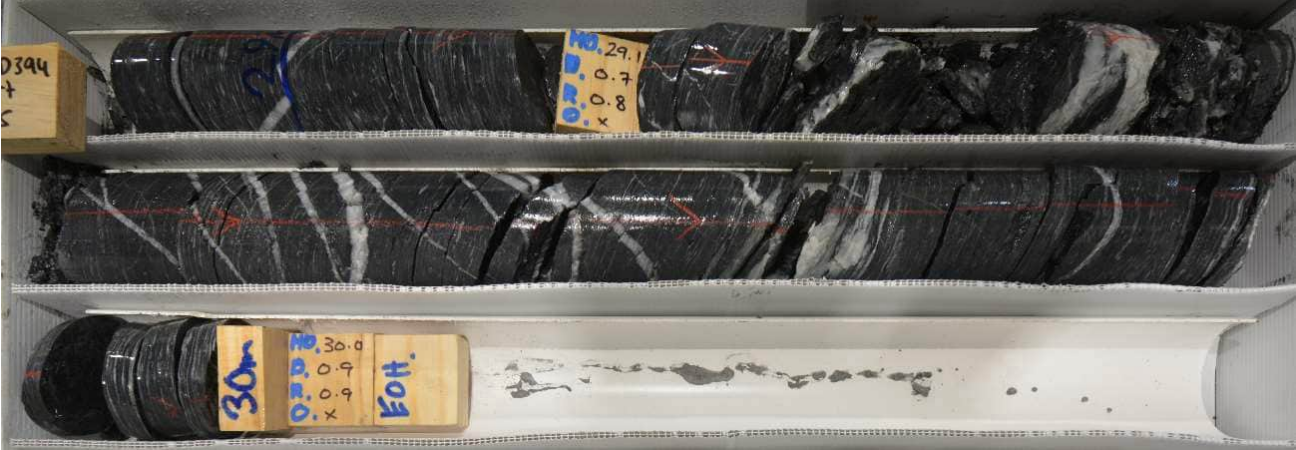


Depth: 21.0m to 23.5m

 Geotechnical, Earthquake and Dam Engineers		EGL Job No.		9702			
		Location:		Bendigo-Ophir Gold Project			
		Start Date	7/12/2024	End Date	10/12/2024		
Title:		MDD394 - CORE PHOTOGRAPHS					
							
p		Depth: 23.5m to 26.4m					
							
		Depth: 26.4m to 28.9m					

	EGL Job No.		9702	
	Location:		Bendigo-Ophir Gold Project	
	Start Date	7/12/2024	End Date	10/12/2024

Title:	MDD394 - CORE PHOTOGRAPHS
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Depth: 28.9m to 30m



Job No.: 9702

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

NOTES: Borehole logged by Matakanaui Gold Ltd. and transcribed to EGL template	LOGGED: Matakanaui	DRILLER: Alton Drilling
	CHECKED: EGL	DRILL TYPE:

EGL - Rock Log v7 (test- inclined hole) - 4/03/2025 10:17:22 am - Produced with Core-GS by Geoc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG		DRILLHOLE No.: MDD396 SHEET 2 OF 15 Job No.: 9702											
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319794.5 North 5017294.5 GRID: NZTM 2000			RL GROUND: 628.2 DATUM: NZVD 2016		HOLE STARTED: 12/12/2024 HOLE FINISHED: 18/12/2024 HOLE DEPTH: 70.1m INCLINATION: 80° ORIENTATION: 207°											
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Completely weathered TZ3; Silty CLAY with some gravel, minor angular cobbles. Hard, moist, moderate plasticity.		623													
			6													
			622													
			7													
			621													
			8													
	Highly weathered TZ3; grey. Weak to moderately strong.		620													
			9													
			619													
					Joint; α80°, smooth, planar, moderately wide: 60-200mm, clay/gouge.											
NOTES: Borehole logged by Matakauui Gold Ltd. and transcribed to EGL template						LOGGED: Matakauui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								

ROCK LOG

DRILLHOLE No.: MDD396

SHEET 3 OF 15

Job No.: 9702

PROJECT:	BOGP
LOCATION:	Bendigo
COORDINATES:	East 1319794.5 North 5017294.5
GRID:	NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

[illegible]

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:



ROCK LOG

DRILLHOLE No.: MDD396

SHEET 4 OF 15

Job No.: 9702

PROJECT:	BOGP
LOCATION:	Bendigo
COORDINATES:	East 1319794.5 North 5017294.5
GRID:	NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

Core Description				Rock Defects					Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
						2 5 10 20 50											
TZ3	Moderately weathered TZ3; brownish black. Weak to moderately strong. Highly fractured.		613		Crush Zone, smooth, planar, rock fragments.		MW	MS									
	Core loss.	16			Shear Zone, smooth, planar, clay/gouge.		W	W			1.50						
	Slightly weathered semi-pelitic TZ3; black and white. Strong.		612				SW				1.40						
		17															
			611		Joint, smooth, planar, clay/gouge.						0.30	83					
	Unweathered semi-pelitic TZ3; black and white. Strong.	18					S				1.50	60					
			610														
		19			Joint; α70°, smooth, planar, rock fragments. Joint; α60°, rough, planar, clay/gouge.		UW										
					Joint, smooth, planar, clay/gouge.												
				609		Foliation Parting, smooth, planar, moderately narrow: 20-60mm, rock fragments.						1.50	20				
Groundwater Not Encountered																	

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

DRILLER: Alton Drilling

CHECKED: EGL

DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG			DRILLHOLE No.: MDD396 SHEET 5 OF 15 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319794.5 North 5017294.5 GRID: NZTM 2000			RL GROUND: 628.2 DATUM: NZVD 2016			HOLE STARTED: 12/12/2024 HOLE FINISHED: 18/12/2024 HOLE DEPTH: 70.1m INCLINATION: 80° ORIENTATION: 207°										
Core Description			Rock Defects			Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Unweathered semi-pelitic TZ3; black and white. Strong.				Joint, slickensided, undulating, clay/gouge.				S		1.50	20				
	Shear zone, grey, weak.		608		Shear Zone; α70°, smooth, planar, clay/gouge.			W								
			21		Fractured Zone.						1.40	44				
	Thin Metamorphic quartz segregation running parallel to foliation. Occasional large chunks of metamorphic quartz segregations.				Joint; α70°, smooth, undulating.											
			607		Joint; α70°, smooth, undulating.											
			22		Foliation Parting; α70°, smooth, curved. Shear Zone; α60°, rock fragments.											
					Crush Zone; α40°, rock fragments.											
			606		Fractured Zone; α60°, rock fragments.											
			23		Joint; α70°, stepped, planar. Joint; α60°, smooth, planar.				S		1.60	49				
					Joint; α70°, smooth, planar. Joint; α80°, smooth, planar. Joint; α70°, smooth, planar.											
		605		Joint; α70°, smooth, planar. Joint; α60°, rough, planar, rock fragments.						0.10	0					
		24		Fractured Zone; α80°, rock fragments. Joint; α70°, smooth, undulating.						0.20	0					
		604		Foliation Parting; α40°, smooth, planar, very narrow:						1.20	88					
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								



Job No.: 9702

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

[illegible]

DRILL TYPE:

ROCK LOG

DRILLHOLE No.: MDD396

SHEET 7 OF 15

Job No.: 9702

PROJECT:	BOGP
LOCATION:	Bendigo
COORDINATES:	East 1319794.5 North 5017294.5
GRID:	NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

HOLE STARTED:	12/12/2024
HOLE FINISHED:	18/12/2024
HOLE DEPTH:	70.1m
INCLINATION:	80°
ORIENTATION:	207°

[illegible]

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaui

DRILLER: Alton Drilling

CHECKED: FGI

DRILL TYPE:



Engineering Geology Ltd
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Unit 7C, 331 Rosedale Road, Albany, Auckland
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ROCK
LOG

DRILLHOLE No.: MDD396

SHEET 8 OF 15

Job No.: 9702

PROJECT: BOGP

LOCATION: Bendigo

COORDINATES: East 1319794.5 North 5017294.5

GRID: NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

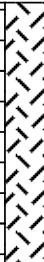
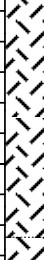
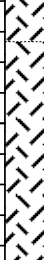
HOLE STARTED: 12/12/2024

HOLE FINISHED: 18/12/2024

HOLE DEPTH: 70.1m

INCLINATION: 80°

ORIENTATION: 207°

Core Description				Rock Defects				Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH		CORE LOSS		CORE LENGTH / TYPE		SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
								PT LOAD / UCS (MPa)		%		RQD (%)					
TZ3	Unweathered pelitic TZ3; black and white. Weak to moderately strong. Large chunks of Metamorphic quartz segregations, slight deformation, uniform and well defined foliation with minor tracing.	36	593		Joint; α10°, smooth, planar, rock fragments. Joint; α70°, smooth, undulating. Joint; α60°, smooth, curved. Joint; α50°, rough, planar, rock fragments. Fractured Zone; α60°, clay/gouge. Fault; α60°, clay/gouge. Crush Zone; α70°, rock fragments.	2 5 10 20 30	UW	MS	W	MS	0.90	1.30	33				
	Thin Metamorphic quartz segregations; running parallel to foliation. Broken clay infill shear zone and uniform well defined foliation with minor folding.	37	592		Joint; α70°, rough, planar, rock fragments. Shear Zone; α70°, clay/gouge. Fault; α80°, clay/gouge.	2 5 10 20 30	UW	MS	VW	MS	1.20	46					
	Fault, clay gauge, very weak.	38	591		Joint; α70°, smooth, planar. Shear Zone; α60°, rock fragments. Joint; α80°, smooth, planar, very narrow: Joint; α80°, smooth, planar. Shear Zone; α35°, clay/gouge.	2 5 10 20 30	UW	MS	W	MS	1.20	0					
Unweathered pelitic TZ3; black and white. Weak to moderately strong. Thin Metamorphic quartz segregations; running parallel to foliation. Broken clay infill shear zone and uniform well defined foliation with minor folding.	39	590		Joint; α70°, smooth, planar. Shear Zone; α60°, rock fragments. Joint; α80°, smooth, planar, very narrow: Joint; α80°, smooth, planar. Shear Zone; α35°, clay/gouge. Shear Zone; α30°, clay/gouge. Shear Zone; α75°, clay/gouge. Shear Zone; α45°, rock fragments.	2 5 10 20 30	UW	MS	W	MS	1.60	0.30	32					

NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

CHECKED: EGL

LOGGED: Matakaniui

DRILLER: Alton Drilling

DRILL TYPE:

ROCK LOG

DRILLHOLE No.: MDD396

SHEET 9 OF 15

Job No.: 9702

PROJECT:	BOGP	RL GROUND:	628.2
LOCATION:	Bendigo	DATUM:	NZVD 2016
COORDINATES:	East 1319794.5 North 5017294.5		
GRID:	NZTM 2000		

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

[illegible]

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

DRILLER: Alton Drilling

CHECKED: FGI

DRILL TYPE:



Job No.: 9702

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						25 50 75				25 50 75					25 50 75	
TZ3	Unweathered pelitic TZ3; black and white. Moderately strong. Large Metamorphic quartz segregation; running parallel to foliation. Unit is well foliated with minor folding and thin carbonate veining cross cutting foliation.	<														

LOGGED: Matakanui **DRILLER:** Alton Drilling
CHECKED: EGL **DRILL TYPE:**



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ROCK LOG

DRILLHOLE No.: MDD396

SHEET 11 OF 15

Job No.: 9702

PROJECT: BOGP

LOCATION: Bendigo

COORDINATES: East 1319794.5 North 5017294.5

GRID: NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

HOLE STARTED: 12/12/2024

HOLE FINISHED: 18/12/2024

HOLE DEPTH: 70.1m

INCLINATION: 80°

ORIENTATION: 207°

GEOLOGICAL UNIT	Core Description			Rock Defects			Drilling & Testing								
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS
TZ3	Unweathered pelitic TZ3; black and white. Moderately strong to strong. Large Metamorphic quartz segregation; running parallel to foliation. Unit is well foliated with minor folding and thin carbonate veining cross cutting foliation.	</													

NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template

LOGGED: Matakaniui

CHECKED: EGL

DRILLER: Alton Drilling

DRILL TYPE:



Job No.: 9702

HOLE STARTED: 12/12/2024
HOLE FINISHED: 18/12/2024
HOLE DEPTH: 70.1m
INCLINATION: 80°
ORIENTATION: 207°

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template	LOGGED: Matakanui	DRILLER: Alton Drilling
	CHECKED: EGL	DRILL TYPE:



ROCK LOG

DRILLHOLE No.: MDD396

SHEET 13 OF 15

Job No.: 9702

PROJECT:	BOGP
LOCATION:	Bendigo
COORDINATES:	East 1319794.5 North 5017294.5
GRID:	NZTM 2000

RL GROUND: 628.2

DATUM: NZVD 2016

HOLE STARTED:	12/12/2024
HOLE FINISHED:	18/12/2024
HOLE DEPTH:	70.1m
INCLINATION:	80°
ORIENTATION:	207°

[illegible]

NOTES: Borehole logged by Matakauj Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

DRILLER: Alton Drilling

CHECKED: FGI

DRILL TYPE:



Job No.: 9702

HOLE STARTED:	12/12/2024
HOLE FINISHED:	18/12/2024
HOLE DEPTH:	70.1m
INCLINATION:	80°
ORIENTATION:	207°

[illegible]

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGI	DRILL TYPE:	

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG		DRILLHOLE No.: MDD396 SHEET 15 OF 15 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319794.5 North 5017294.5 GRID: NZTM 2000			RL GROUND: 628.2 DATUM: NZVD 2016			HOLE STARTED: 12/12/2024 HOLE FINISHED: 18/12/2024 HOLE DEPTH: 70.1m INCLINATION: 80° ORIENTATION: 207°										
Core Description				Rock Defects			Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						2 5 10 20 50				25 50 75		25 50 75				
123	Unweathered pelitic TZ3; black and white. Moderately strong to strong. Metamorphic quartz bands have abundant fractures that run near perpendicular to the bands making quartz very crumbly.						UW	MS			0.70	0		Not		
EOH: 70.10 m																
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template LOGGED: Matakanui CHECKED: EGL DRILLER: Alton Drilling DRILL TYPE:																

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 0m to 1.2m



Depth: 1.2m to 2.3 m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 2.3m to 4.6m



Depth: 4.6m to 6.4m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 6.4m to 8.3m



Depth: 8.3m to 10.3m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12/12/2024

End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS

Depth: 10.3m to 12.3m

Depth: 12.3m to 15.2m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 15.2 to 18.4m

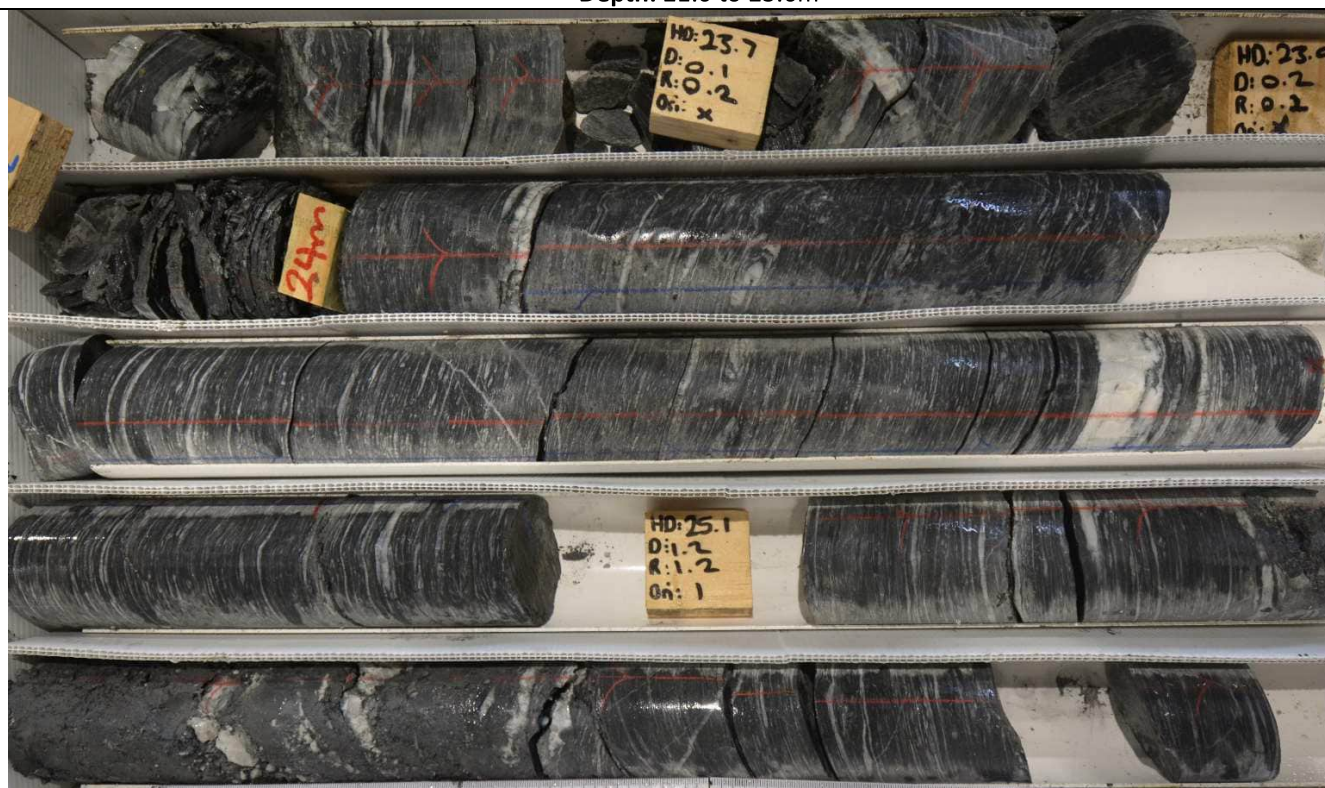


Depth: 18.4m to 21.0m

Title:

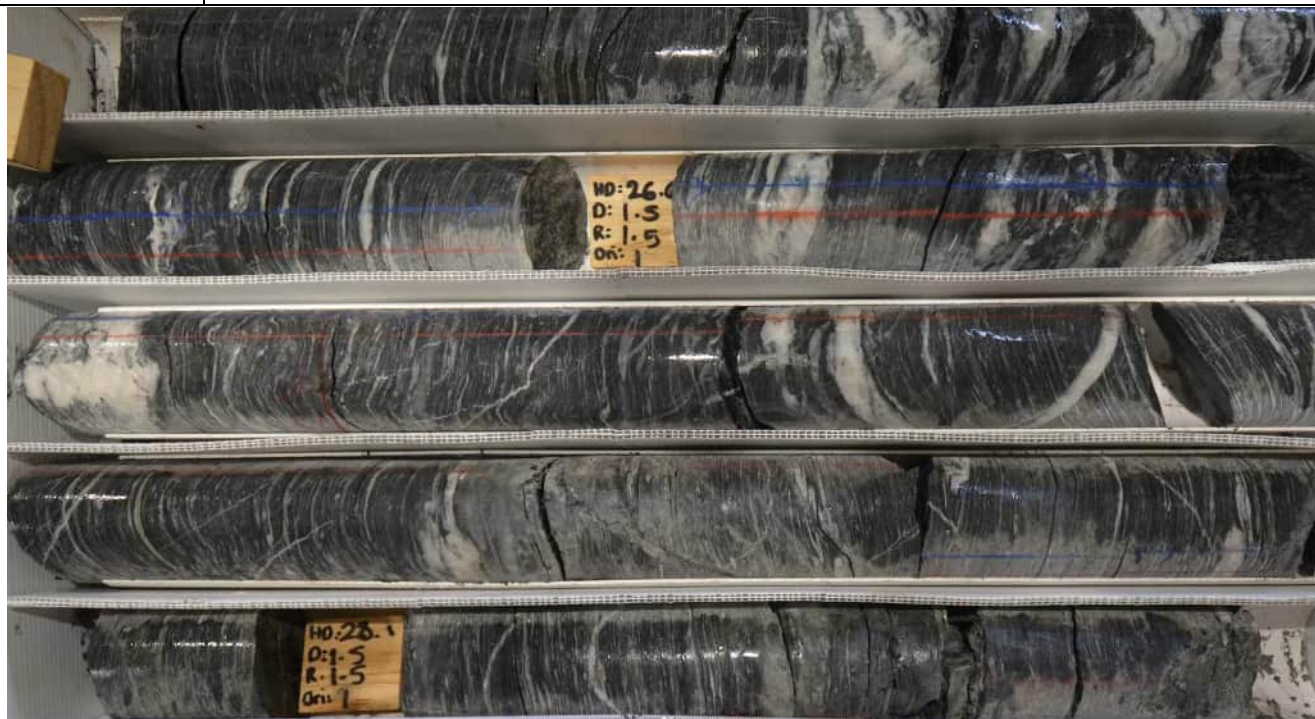
MDD396 - CORE PHOTOGRAPHS


Depth: 21.0 to 23.6m



Depth: 23.6m to 25.8m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 25.8m to 28.5m



Depth: 28.5m to 31.1m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12/12/2024

End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS



Depth: 31.3m to 33.3m



Depth: 33.3m to 35.8m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12/12/2024

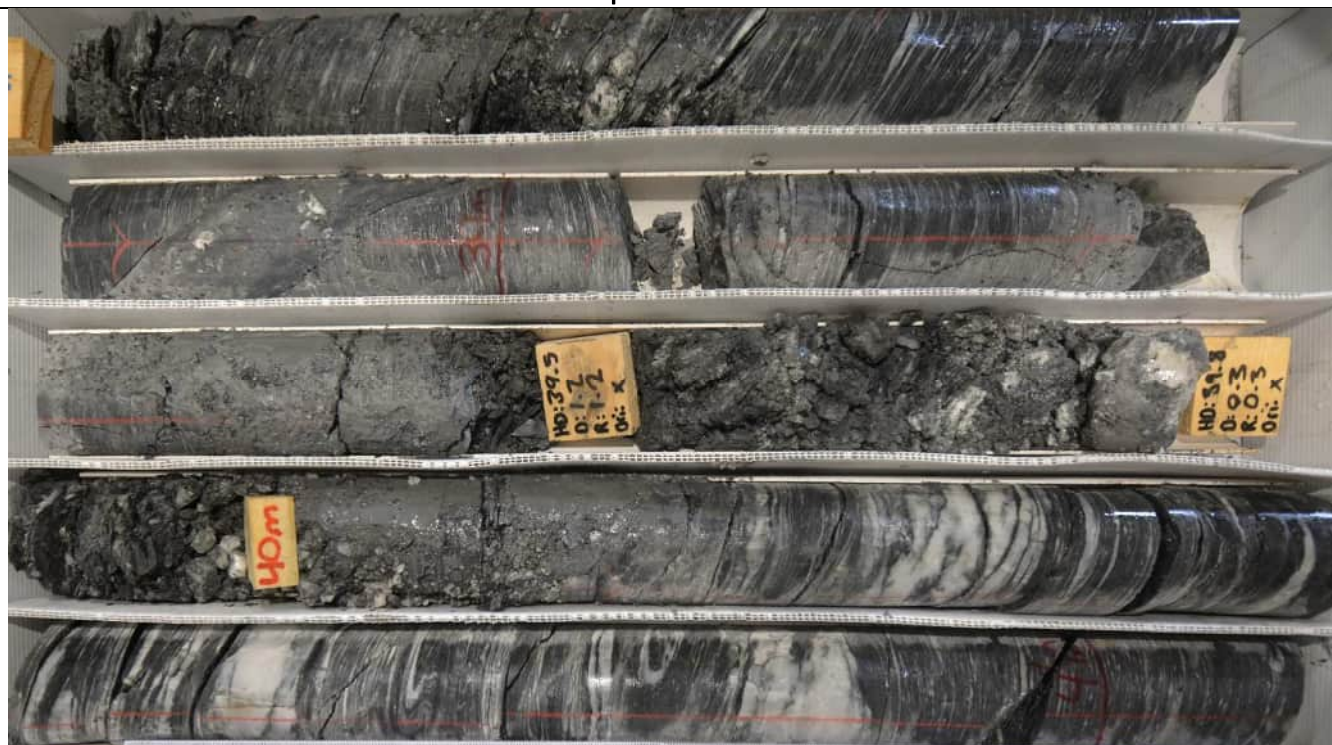
End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 35.8m to 38.3m



Depth: 38.3m to 41.1m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

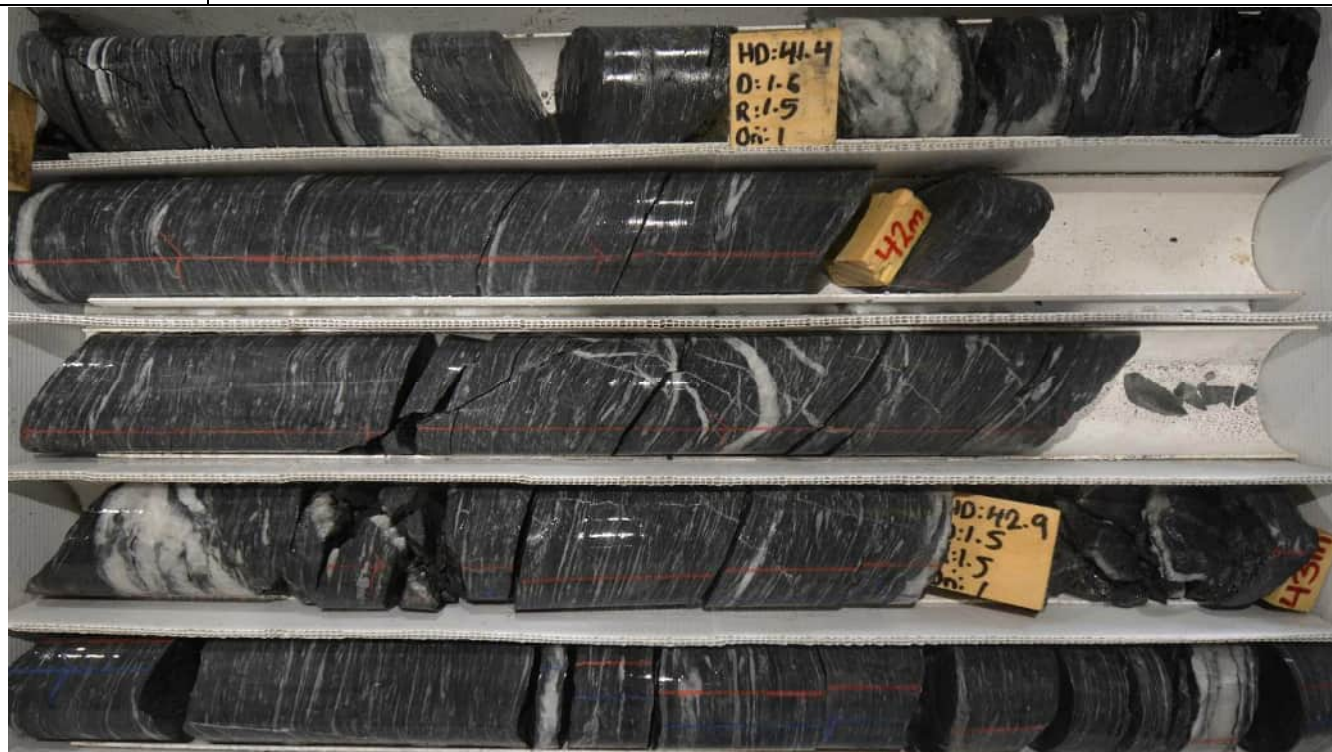
Start Date

12/12/2024

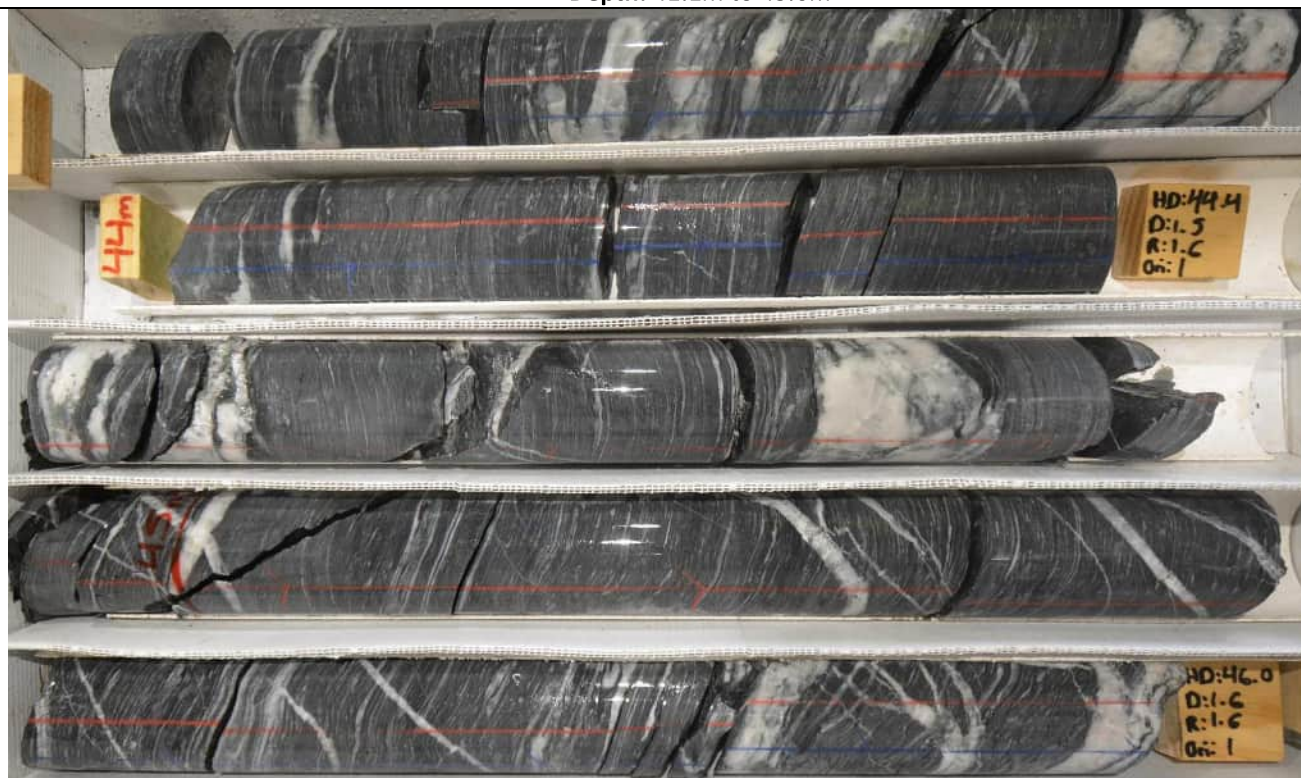
End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 41.1m to 43.6m



Depth: 43.6m to 46.0m

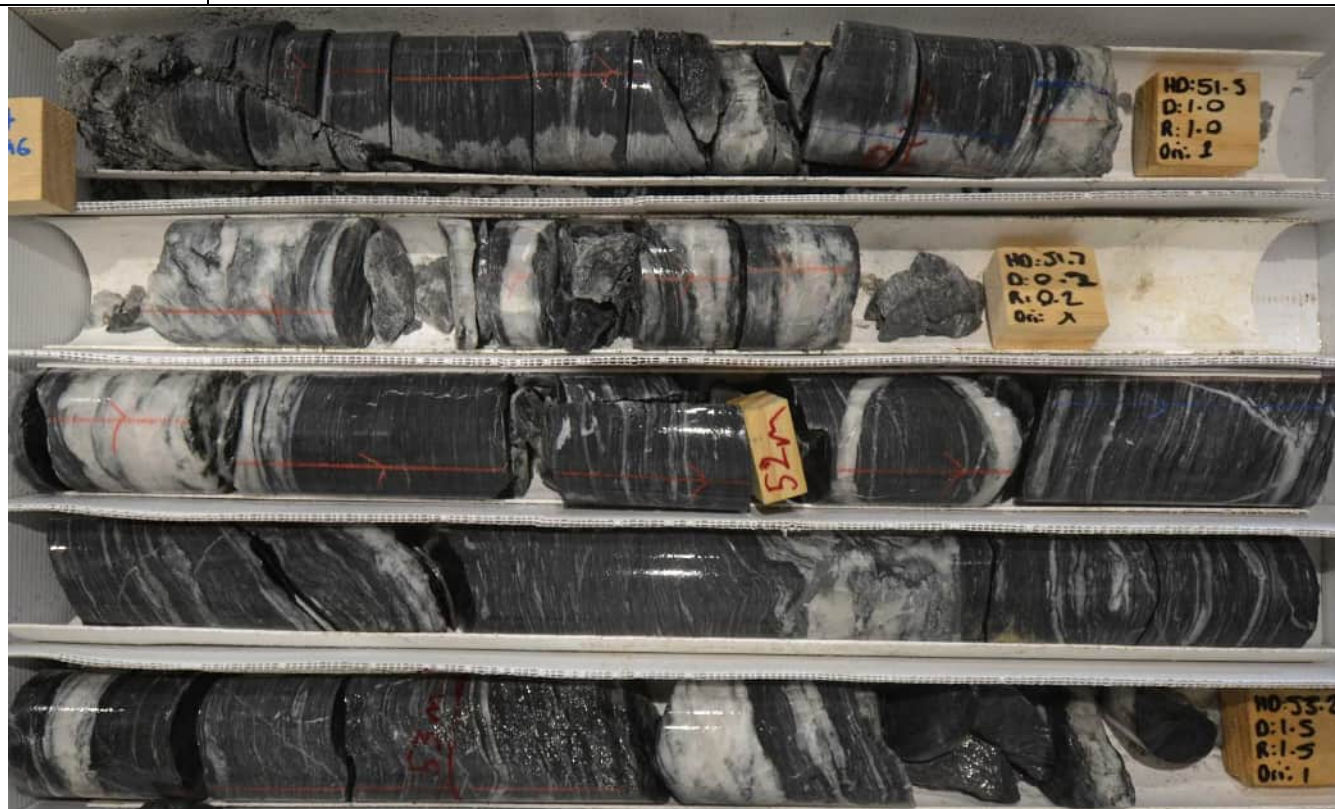
Title:

MDD396 - CORE PHOTOGRAPHS

Depth: 46.0m to 48.4m

Depth: 48.4m to 51.0m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 51m to 53.3m



Depth: 53.3m to 55.8m

Title:

MDD396 - CORE PHOTOGRAPHS


Depth: 55.8m to 58.4m



Depth: 58.4m to 61.1m

EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

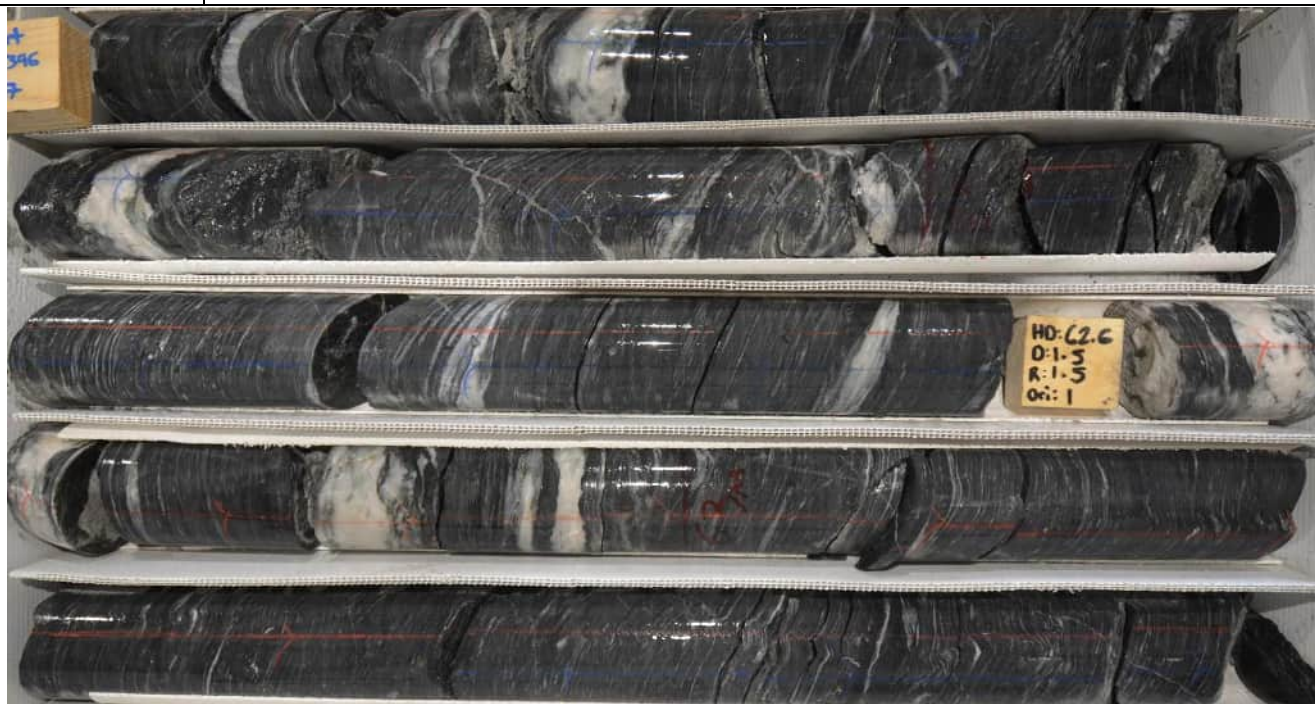
Start Date

12/12/2024

End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS

Depth: 61.1m to 63.9m

Depth: 63.9m to 66.6m



EGL Job No.

9702

Location:

Bendigo-Ophir Gold Project

Start Date

12/12/2024

End Date

18/12/2024

Title:

MDD396 - CORE PHOTOGRAPHS



Depth: 66.6m to 69.0m



Depth: 69.0m to 70.1m



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGL	DRILL TYPE:	



Job No.: 9702

HOLE STARTED: 10/01/2025
HOLE FINISHED: 17/01/2025
HOLE DEPTH: 70.1m
INCLINATION: 70°
ORIENTATION: 25°

LOGGED: Matakanui **DRILLER:** Alton Drilling
CHECKED: EGL **DRILL TYPE:**

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG		DRILLHOLE No.: MDD399 SHEET 3 OF 15 Job No.: 9702												
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319629.1 North 5017032.7 GRID: NZTM 2000			RL GROUND: 683.9 DATUM: NZVD 2016		HOLE STARTED: 10/01/2025 HOLE FINISHED: 17/01/2025 HOLE DEPTH: 70.1m INCLINATION: 70° ORIENTATION: 25°												
Core Description			Rock Defects		Drilling & Testing												
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
						2 5 10 20 30				25 50 75					25 50 75		
TZ3	Completely weathered TZ3, Gravelly CLAY; brown. Hard. Small rounded gravel fragments; broken and brittle mainly consists of shear and fault zones.		674						VW			0.50	0				
												0.25	0				
	Highly weathered TZ3; brownish grey. Weak to moderately strong.		11					W				0.30	0				
			673									0.30	0				
									MS			1.10	40				
			12			Foliation Parting; α70°, smooth, planar, narrow: 6-20mm, clean.											
			672														
			13			Crush Zone, rock fragments.			W				0.45	0			
		Completely weathered TZ3, silty GRAVEL; brownish grey. Loose, gravel, angular, fine to coarse.		671									0.40	0			
												0.50	0				
												0.50	0				
												0.60	0				
			14		Fault, clay/gouge.												
			670														
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling									
						CHECKED: EGL		DRILL TYPE:									



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

T73

DRILL TYPE:



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ROCK
LOG

DRILLHOLE No.: MDD399

SHEET 5 OF 15

Job No.: 9702

PROJECT:	BOGP	RL GROUND:	683.9	HOLE STARTED:	10/01/2025
LOCATION:	Bendigo	DATUM:	NZVD 2016	HOLE FINISHED:	17/01/2025
COORDINATES:	East 1319629.1 North 5017032.7			HOLE DEPTH:	70.1m
GRID:	NZTM 2000			INCLINATION:	70°
				ORIENTATION:	25°

Core Description				Rock Defects				Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH PT LOAD / UCS (MPa)	CORE LOSS				CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
									25	50	75	100						
TZ3	Slightly weathered TZ3 Schist; dark grey and white. Weak to moderately strong. Moderately deformed.		665		Shear Zone, clay/gouge.													



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

NOTES: Borehole logged by Matakanaui Gold Ltd. and transcribed to EGL template	LOGGED: Matakanaui	DRILLER: Alton Drilling
	CHECKED: EGL	DRILL TYPE:



Job No.: 9702

HOLE STARTED: 10/01/2025
HOLE FINISHED: 17/01/2025
HOLE DEPTH: 70.1m
INCLINATION: 70°
ORIENTATION: 25°

Elevation (m)	Interval (m)	Lithology / Description	Foliation / Structure	MS	W		Groundwater Not Encountered
					W	W	
655	31	Fault, clay, dark grey, weak. Unweathered semi-pelitic TZ3; dark grey, white. Weak. Fragments only	Shear Zone, clay/gouge.				
654	32	Fault, clay, dark grey. Hard.	Fault, clay/gouge.				
653	33	Unweathered Semi-psammitic TZ3; dark grey and white. Weak. Fragments only.					
652	34	Moderately strong, slightly deformed.	Shear Zone, clay/gouge. Shear Zone, rock fragments. Foliation Parting; $\alpha 70^\circ$, smooth, planar, clean. Shear Zone, rock fragments.				
651		Fault, clay gauge, dark grey. Hard.	Shear Zone, clay/gouge.				

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGL	DRILL TYPE:	



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

[illegible]

DRILL TYPE:



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

[illegible]

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGL	DRILL TYPE:	

EGL - Rock Log v7 (test- inclined hole) - 4/03/2025 10:18:00 am - Produced with Core-GS by Geoc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz			ROCK LOG		DRILLHOLE No.: MDD399 SHEET 10 OF 15 Job No.: 9702											
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319629.1 North 5017032.7 GRID: NZTM 2000			RL GROUND: 683.9 DATUM: NZVD 2016		HOLE STARTED: 10/01/2025 HOLE FINISHED: 17/01/2025 HOLE DEPTH: 70.1m INCLINATION: 70° ORIENTATION: 25°											
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Unweathered pelitic TZ3 Schist; dark grey and white. Weak to moderately strong. Slightly deformed.															
TZ3	Moderately deformed.															
NOTES: Borehole logged by Matakaniui Gold Ltd. and transcribed to EGL template						LOGGED: Matakaniui		DRILLER: Alton Drilling								
						CHECKED: EGL		DRILL TYPE:								



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

[illegible]

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGI	DRILL TYPE:	



Job No.: 9702

HOLE STARTED:	10/01/2025
HOLE FINISHED:	17/01/2025
HOLE DEPTH:	70.1m
INCLINATION:	70°
ORIENTATION:	25°

[illegible]

LOGGED:	Matakanui	DRILLER:	Alton Drilling
CHECKED:	EGL	DRILL TYPE:	

EGL - Rock Log v7 (test- inclined hole) - 4/03/2025 10:18:00 am - Produced with Core-GS by Geoc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG				DRILLHOLE No.: MDD399 SHEET 13 OF 15 Job No.: 9702									
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319629.1 North 5017032.7 GRID: NZTM 2000				RL GROUND: 683.9 DATUM: NZVD 2016				HOLE STARTED: 10/01/2025 HOLE FINISHED: 17/01/2025 HOLE DEPTH: 70.1m INCLINATION: 70° ORIENTATION: 25°									
Core Description				Rock Defects				Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
TZ3	Unweathered TZ3 Schist; dark grey and white. Strong, moderately deformed.				Crush Zone, rock fragments.												
			627														
			61														
			626					S			1.50	53					
			62		Joint; α40°, smooth, planar, clay/gouge.						1.50	80					
	Weak to moderately strong.		625								1.50	20					
			63					MS									
								W									
	Large fault, clay gouge. Surrounded by clay rich cataclasite.		624		Fault; α65°, smooth, planar, clay/gouge.			VW									
	Fault zone cataclasite, dark grey. Very weak to weak.		64		Crush Zone, clay/gouge.						1.20	0					
		623						W									
								VW			0.50	0					
NOTES: Borehole logged by Matakauui Gold Ltd. and transcribed to EGL template						LOGGED: Matakauui		DRILLER: Alton Drilling									
						CHECKED: EGL		DRILL TYPE:									



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PO Box 301054, Albany, Auckland 0752
www.egl.co.nz

ROCK LOG

DRILLHOLE No.: MDD399

SHEET 14 OF 15

Job No.: 9702

PROJECT: BOGP

LOCATION: Bendigo

COORDINATES: East 1319629.1 North 5017032.7

GRID: NZTM 2000

RL GROUND: 683.9

DATUM: NZVD 2016

HOLE STARTED: 10/01/2025

HOLE FINISHED: 17/01/2025

HOLE DEPTH: 70.1m

INCLINATION: 70°

ORIENTATION: 25°

GEOLOGICAL UNIT	Core Description			Rock Defects				Drilling & Testing								
	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TZ3	Fault zone cataclasite, dark grey. Very weak.															
	Unweathered pelitic TZ3; dark grey and white. Weak to moderately strong. Slightly deformed.															
			622													
			66													
					Crush Zone, rock fragments.											
			621													
			67													
					Crush Zone, rock fragments.											
					Crush Zone, rock fragments.											
			620													
		68														
					Shear Zone; α15°, undulating, clay/gouge.											
					Shear Zone; α10°, smooth, planar, clay/gouge.											
		619			Fractured Zone, narrow: 6-20mm, rock fragments.											
					Shear Zone, clay/gouge.											

NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template

LOGGED: Matakanui

CHECKED: EGL

DRILLER: Alton Drilling

DRILL TYPE:

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				ROCK LOG		DRILLHOLE No.: MDD399 SHEET 15 OF 15 Job No.: 9702										
PROJECT: BOGP LOCATION: Bendigo COORDINATES: East 1319629.1 North 5017032.7 GRID: NZTM 2000				RL GROUND: 683.9 DATUM: NZVD 2016				HOLE STARTED: 10/01/2025 HOLE FINISHED: 17/01/2025 HOLE DEPTH: 70.1m INCLINATION: 70° ORIENTATION: 25°								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DRILLED LENGTH (m)	ELEVATION RL (m)	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS	FIELD TESTS
						2 5 10 20 50				25 50 75		25 50 75				
123	Unweathered pelitic TZ3; dark grey and white. Weak.		64.0					W			1.30	0		Not		
EOH: 70.10 m																
NOTES: Borehole logged by Matakanui Gold Ltd. and transcribed to EGL template LOGGED: Matakanui CHECKED: EGL DRILLER: Alton Drilling DRILL TYPE:																

Title:

MDD399 - CORE PHOTOGRAPHS



Depth: 0m to 1.8m



Depth: 1.8m to 3.6 m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 3.6m to 5.6m



Depth: 5.6m to 7.4m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 7.4m to 9.2m



Depth: 9.2m to 11.05m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 11.05m to 12.6m



Depth: 12.6m to 14.35m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 14.35m to 17.15m



Depth: 17.15m to 19.50m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 19.5m to 22.2m

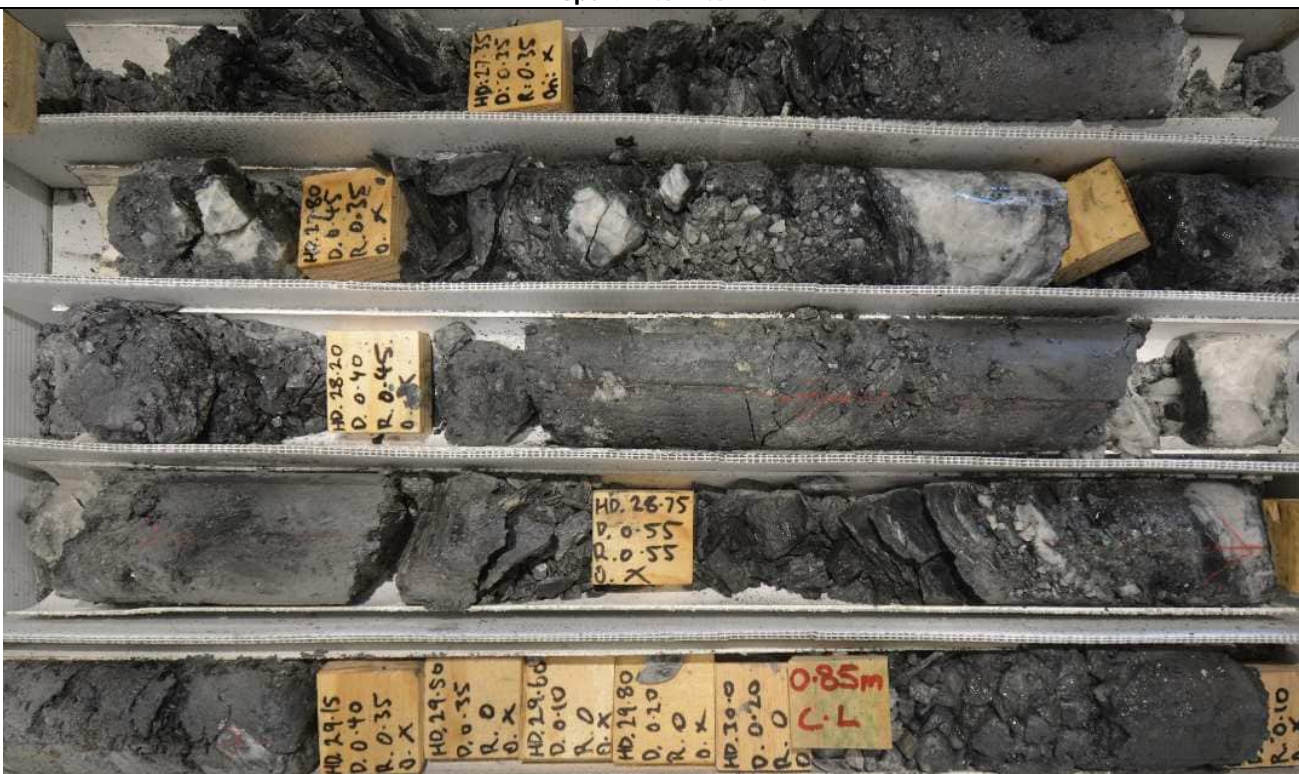


Depth: 22.2m to 24.6m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 24.6m to 27.2m



Depth: 27.2m to 30.1m

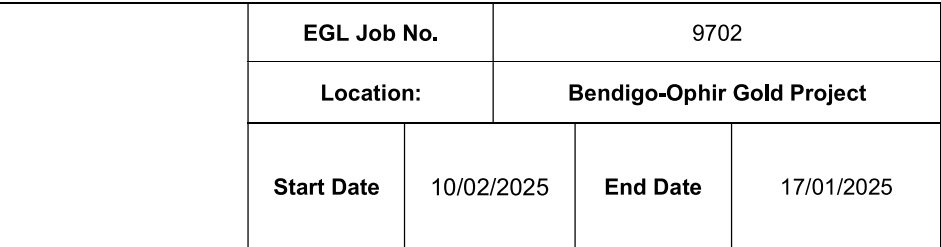
Title:

MDD399 - CORE PHOTOGRAPHS

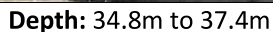
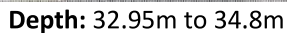

Depth: 30.1m to 31.9m



Depth: 31.9m to 32.95m



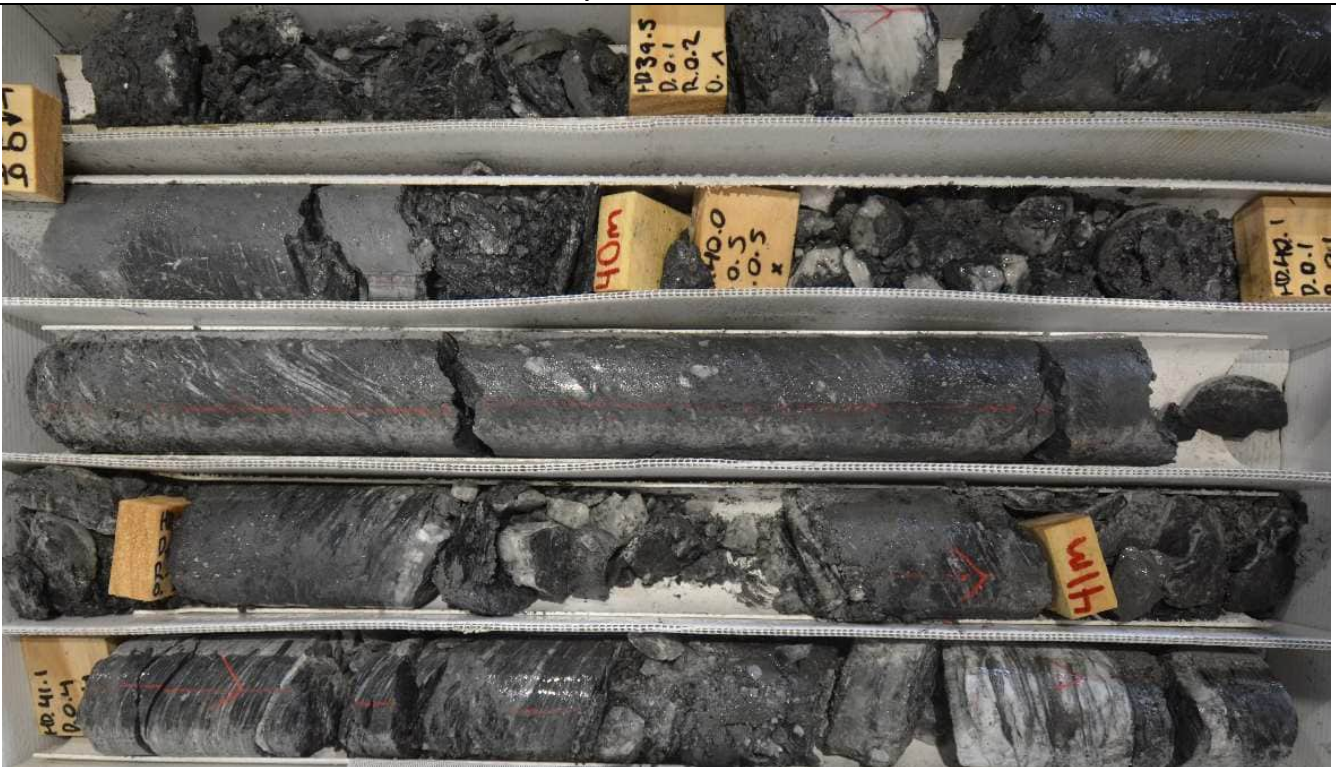
MDD399 - CORE PHOTOGRAPHS



Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 37.4m to 39.4m

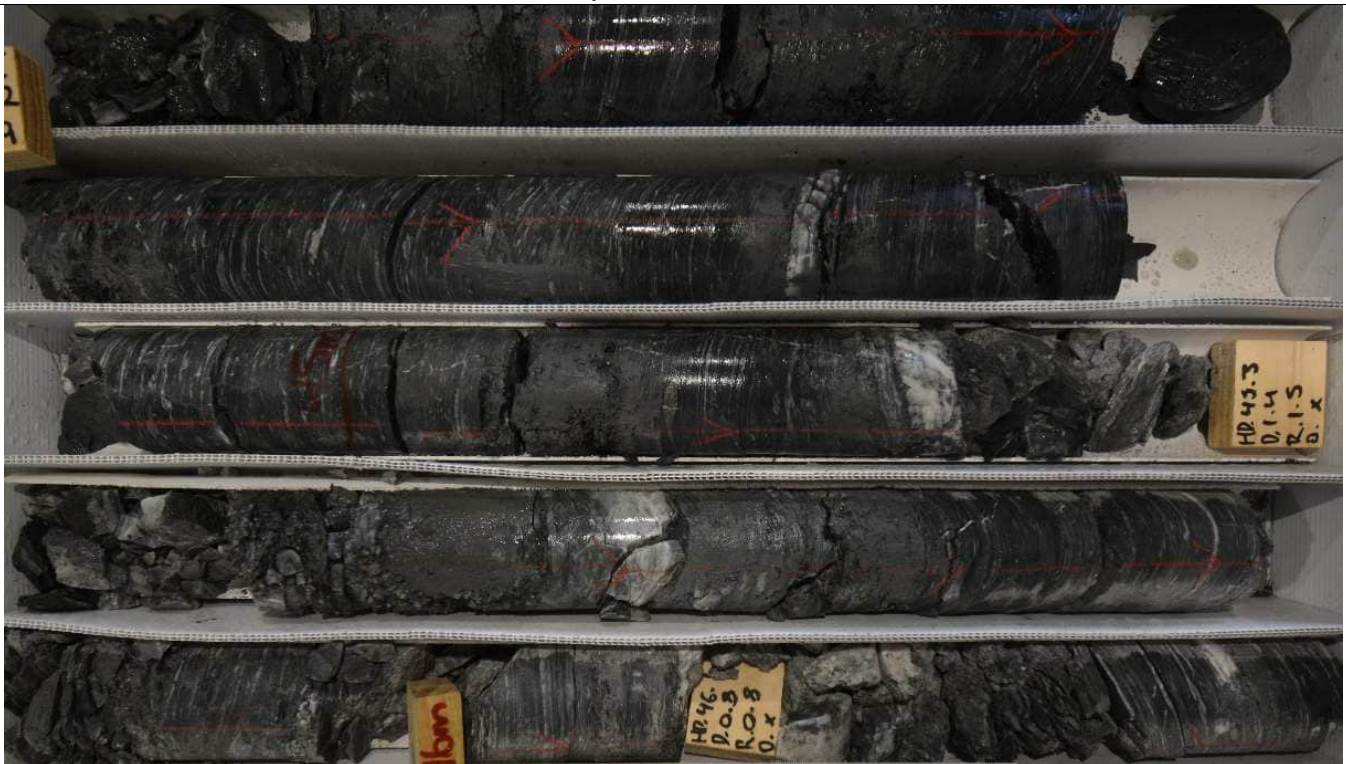


Depth: 39.4m to 41.6m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 41.6m to 43.9m



Depth: 43.9m to 46.3m

Title:

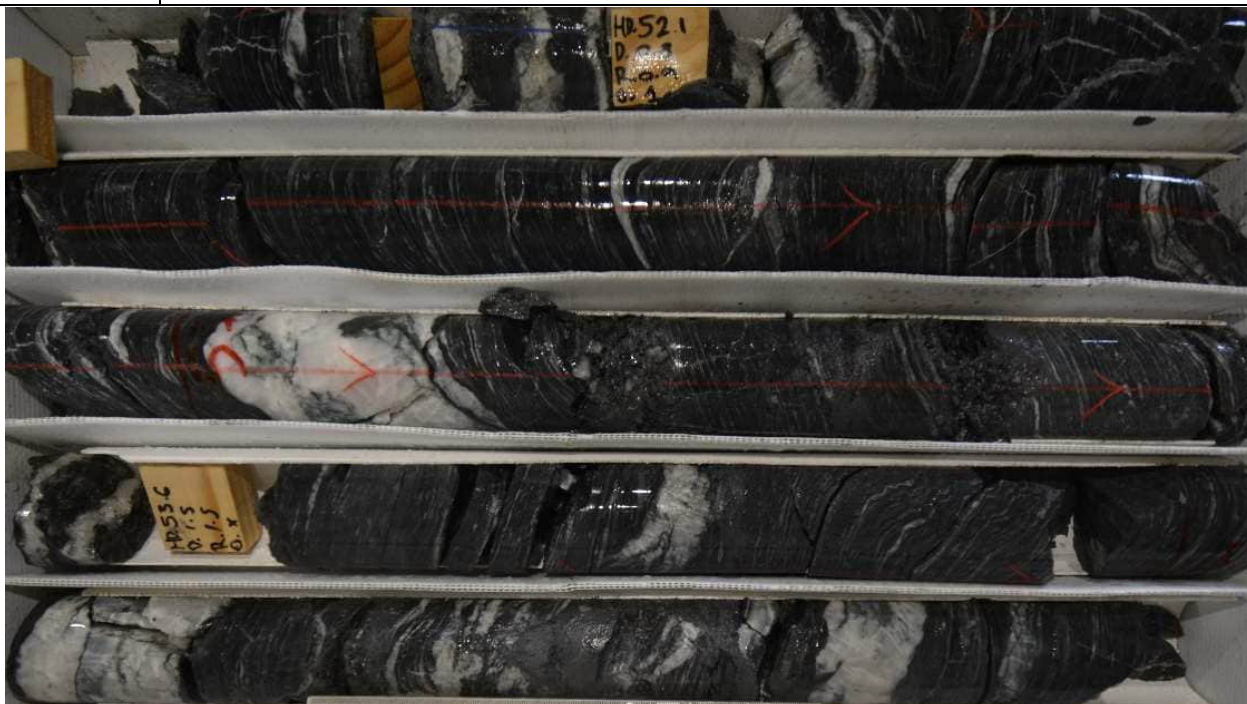
MDD399 - CORE PHOTOGRAPHS


Depth: 46.3m to 49.1m

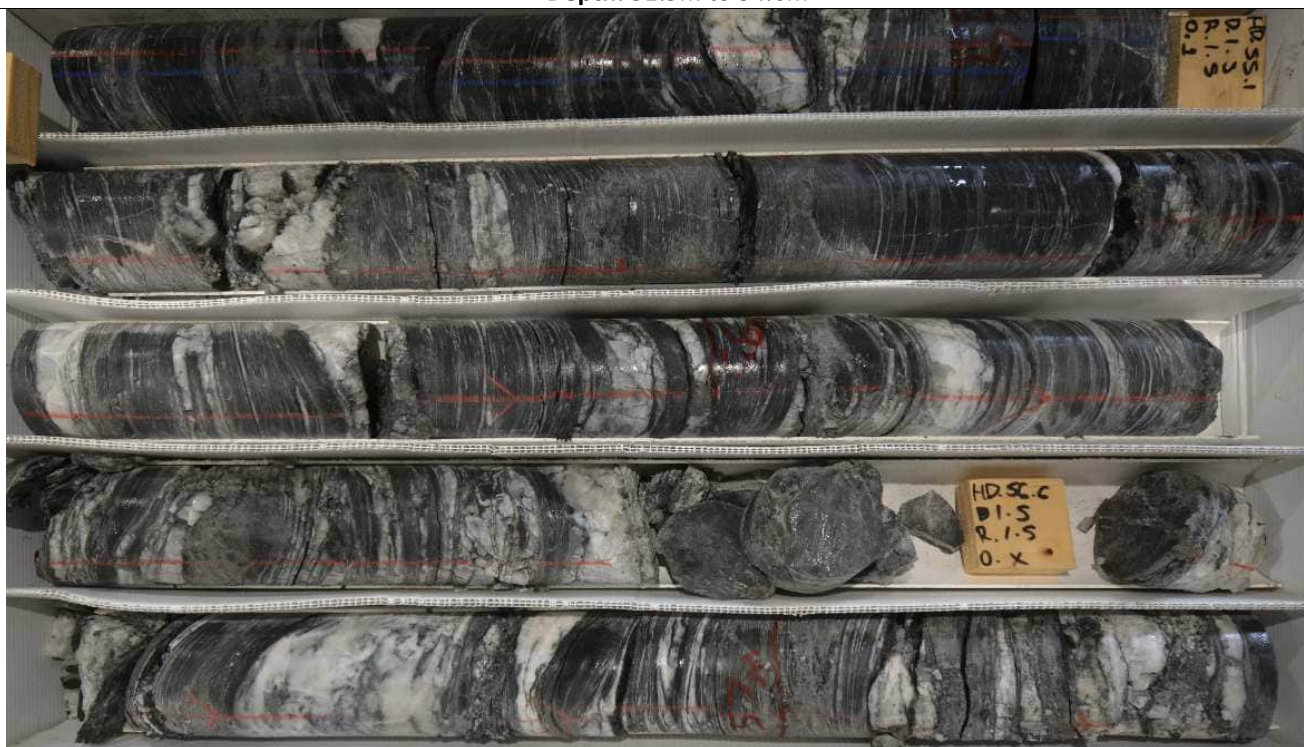


Depth: 49.1m to 51.9m

Title:

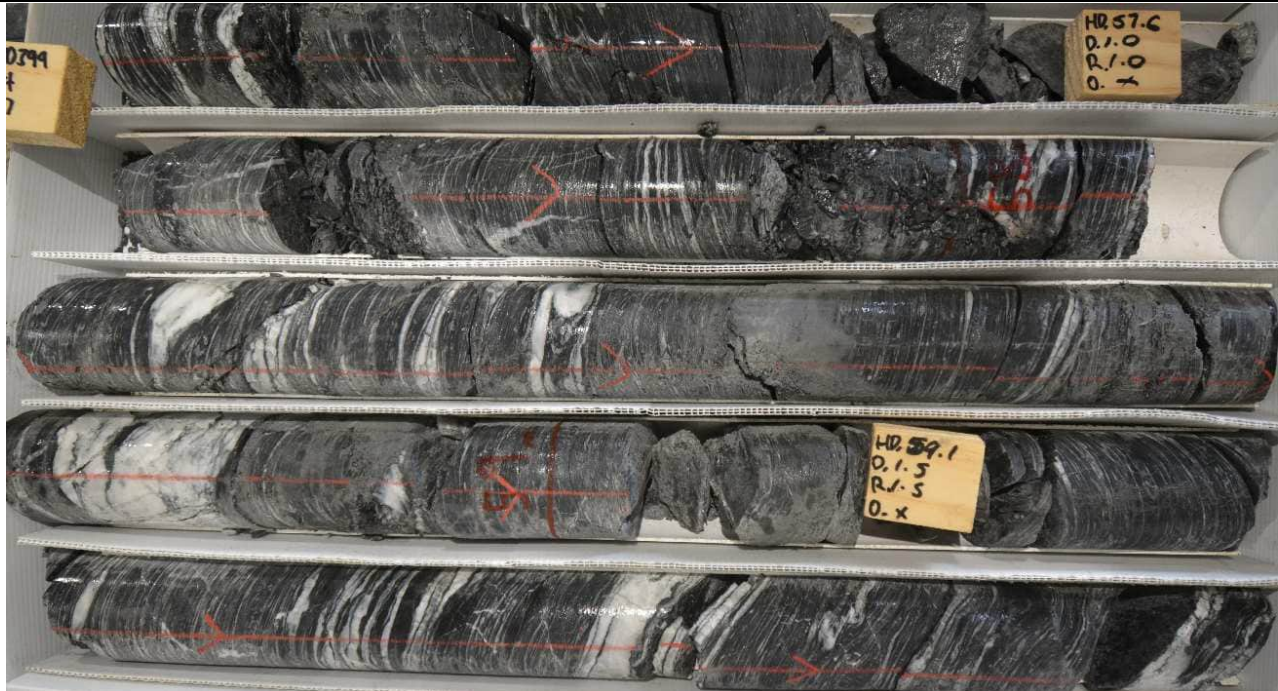
MDD399 - CORE PHOTOGRAPHS


Depth: 51.9m to 54.6m

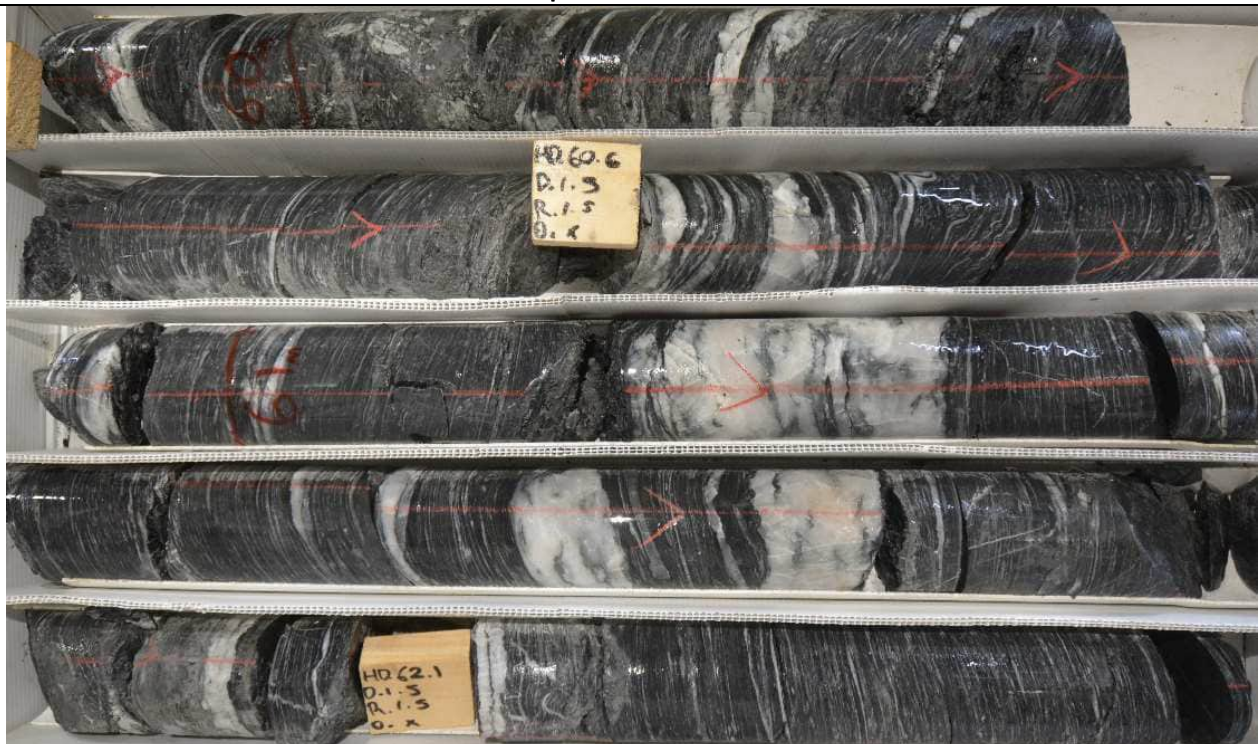


Depth: 54.6m to 57.1m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 57.1m to 59.9m

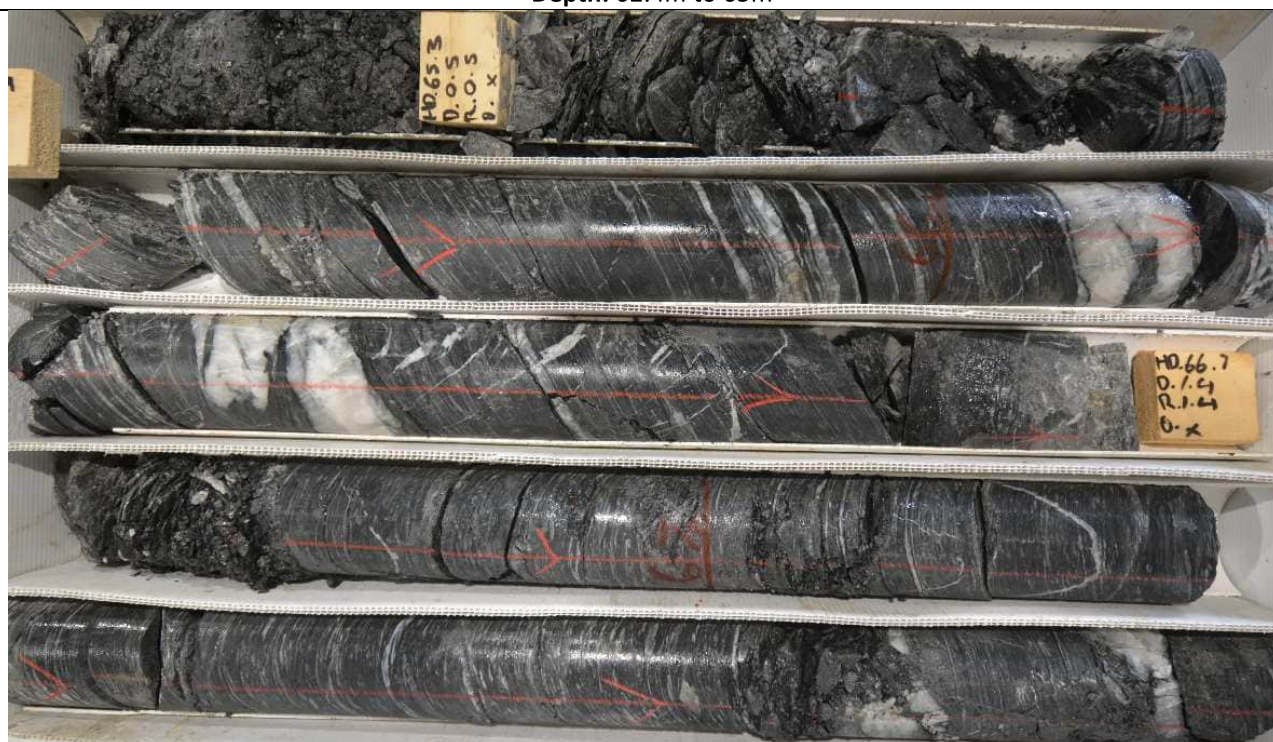


Depth: 59.9m to 62.4m

Title:

MDD399 - CORE PHOTOGRAPHS


Depth: 62.4m to 65m



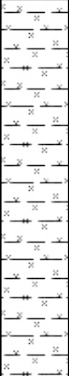
Depth: 65m to 67.9m

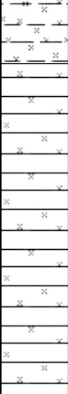


APPENDIX C

Testpit Logs and Photographs

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:51:07 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz TEST PIT LOG TESTPIT No.: EGLTP01 SHEET 1 OF 1 Job No.: 9702.0											
PROJECT: BOGP Test Pits		DATE: 31/05/2024									
LOCATION: Bendigo Ophir Stations		TESTPIT DEPTH: 2.5m									
RL GROUND: 734.7m		COORDINATES: East 1318255.8 North 5016437.2									
DATUM: NZVD2016		GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50								100	
										150	
TS	Organic SILT; dark brown. Moist, soft, low plasticity.	734.7				S					
Quaternary Deposits	Clayey SILT some gravel and cobbles; light greyish brown. Moist, stiff, low plasticity. Gravels medium to coarse, subangular to angular, schist derived. Cobbles; up to 120mm subangular to angular, schist derived. (Alluvial Fan)	0.2 734.5		1		St					
	Gravelly SILT some clay and cobbles minor sand; brownish grey. Moist, very stiff, low plasticity. Clast supported. Gravels; medium to coarse, angular to subangular, derived from quartz rich schist. Cobbles; up to 120mm angular to subangular, derived from quartz rich schist. (Alluvial Fan)	1.4 733.3		2		VSt					
	Bouldery CLAY; dark grey. Moist, hard, moderate plasticity, hard. Foliation and mica structures visible. matrix supported. Boulders; up to 350mm, boulders angular to subangular schist. (Completely weathered schist)	2.3 732.4				H					
TZ4		2.5									
EOH: 2.50 m											
NOTES: Logged by EGL staff. Refusal at 2.5m. Groundwater not encountered.											
LOGGED: JF											
CHECKED: PC											
EXCAVATOR: 20T Excavator											

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: EGLTP02 SHEET 1 OF 1 Job No.: 9702.0							
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: 735.5m DATUM: NZVD2016		DATE: 31/05/2024 TESTPIT DEPTH: 1.9m COORDINATES: East 1318356.2 North 5016320.2 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT; dark brown. Moist, soft, low plasticity.	735.5			M						
Quaternary Deposits	Clayey SILT with some gravel and cobbles; light greyish brown. Dry, stiff, low plasticity. Matrix supported. Gravel; fine to coarse subangular to angular, schist derived. Cobbles; up to 120mm subangular to angular, schist derived. (Alluvial Fan)	735.2			D	St					
	Silty CLAY with minor gravel and cobbles, trace boulders; dark grey. Moist, very stiff, high plasticity. Gravel; fine to coarse subangular to angular, schist derived. Cobbles; fine to coarse subangular to angular schist derived. (Alluvial Fan)	734.8		1	M	VSt			1.80m, 31/05/2024		
	Seepage encountered.	733.7			S						
		EOH: 1.90 m									
NOTES: Logged by EGL staff. Refusal at 1.9m Groundwater at 1.8m.					LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator						



Job No.: 9702.0

DATE: 31/05/2024
TESTPIT DEPTH: 1.8m
COORDINATES: East 1318419.2 North 5016226.5
GRID: NZTM 2000

GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
											● Field Vane (BS 1377) ○ Remoulded Field Vane	
											50 100 150	
TS		Organic SILT; dark brown. Moist, soft, low plasticity.	745.0 0.1									
Quaternary Deposits		Silty CLAY; light brownish grey. Moist, stiff, moderate plasticity. (Holocene Landslide Deposits)	744.9									
		0.4m - 0.5m: some boulders on southern side of pit										
		Clayey SILT; grey. Moist, very stiff, moderate plasticity. (Holocene Landslide Deposits)	1.4 743.6									
		1.6m: clay excavated as angular blocks										
1/2 4		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Matrix supported. Foliation and mica structures visible. Boulders; up to 350mm, angular to subangular schist. (Completely weathered schist)	1.7 743.3 1.8									
			EOH: 1.80 m									

EXCAVATOR: 20T Excavator

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: EGLTP04									
				SHEET 1 OF 1									
				Job No.: 9702.0									
PROJECT: BOGP Test Pits				DATE: 31/05/2024									
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 2.6m									
RL GROUND: 743.2m				COORDINATES: East 1318596.2 North 5016244.0									
DATUM: NZVD2016				GRID: NZTM 2000									
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION		DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
				50	100	150	● Field Vane (BS 1377) ○ Remoulded Field Vane						
TS		Organic SILT; dark brown. Moist, soft, low plasticity.		743.2									
Quaternary Deposits		Silty CLAY with minor gravel and cobbles; brownish grey. Moist, stiff to very stiff, low plasticity. Gravel; fine to coarse subangular to angular, schist derived. Cobbles; up to 120mm subangular to angular, schist derived. (Alluvial Fan)		0.3 742.9		1	M	St-VS					
		1.0m: 300mm angular quartz boulder											
		Silty CLAY minor gravel and cobbles trace boulders; brownish grey. Wet, very stiff, low plasticity. Seepage present. Gravels; fine to coarse subangular to angular, schist derived. Cobbles; up to 120mm subangular to angular, schist derived. Boulders; up to 240mm, angular schist. (Alluvial Fan)1.9m - 2.1m: Lense of silty GRAVEL some sand; gravels fine to coarse angular to subangular, schist derived. Grey; wet, medium dense, non-plastic. Water flowing out from layer		1.8 741.4		2	S	VSt					
TZ3		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 350mm, boulders angular to subangular schist (Completely weathered schist)		2.4 740.8				H					
				2.6									
				EOH: 2.60 m									
NOTES: Logged by EGL staff. Refusal at 2.6m. Groundwater at 1.7m.										LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator			

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: EGLTP05 SHEET 1 OF 1 Job No.: 9702.0								
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: 750.4m DATUM: NZVD2016		DATE: 31/05/2024 TESTPIT DEPTH: 0.9m COORDINATES: East 1318484.2 North 5016162.8 GRID: NZTM 2000										
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
											● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS		Organic SILT; dark brown. Moist, soft, low plasticity.	750.4		D		L			Groundwater Not Encountered		
Quaternary Deposits		Silty GRAVEL; light greyish brown. Dry, loose, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular, derived from schist. (Holocene Landslide Deposits)	0.1									
			750.3									
TZ4		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 350mm, boulders angular to subangular schist (Completely weathered schist)	0.6				H					
			749.8									
			0.9									
EOH: 0.90 m												
NOTES: Logged by EGL staff. Refusal at 0.9m Groundwater not encountered.												
LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator												



TESTPIT No.: EGLTP06
SHEET 1 OF 1
Job No.: 9702.0

DATE: 31/05/2024
TESTPIT DEPTH: 2.4m
COORDINATES: East 1318625.2 North 5016210.1
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)			FIELD TESTS
										● Field Vane (BS 1377)	○ Remoulded Field Vane		
										50	100	150	
Quaternary Deposits	Organic SILT; dark brown. Moist, soft, low plasticity.	70.117 741.7			M								
	Gravelly SILT with some clay minor sand; brownish grey. Dry, very stiff, low plasticity. Clast supported. Gravels; fine to coarse angular to subangular, derived from quartz rich schist. (Alluvial Fan)				D	VSt							
	GRAVEL with some silt and cobbles minor clay; greyish brown. Moist, medium dense, non-plastic. Clast supported. Gravels; fine to coarse angular to subangular, derived from quartz rich schist. Cobbles; up to 140mm angular to subangular, derived from schist. (Alluvial Fan)	0.9 740.8		1	M								
	Gravelly COBBLES with some silt minor clay; brownish grey. Wet, medium dense, non-plastic. Clast supported. Gravels; fine to coarse angular to subangular, derived from schist. Cobbles; up to 120mm angular to subangular, derived from schist. (Alluvial Fan)	1.5 740.2			W	MD							
	GRAVEL with some cobbles trace silt; grey. Saturated, medium dense, non plastic. Clast supported. Gravels; fine to coarse, angular to subangular, derived from schist. Cobbles; up to 140mm, angular to subangular, derived from schist. (Alluvial Fan)	2.0 739.7		2	S								
TZ3	Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 350mm, boulders angular to subangular schist (Completely weathered schist)	2.2 739.5 2.4				H							
		EOH: 2.40 m											

LOGGED: JF

CHECKED: PC EXCAVATOR: 20T Excavator



TESTPIT No.: EGLTP07
SHEET 1 OF 1
Job No.: 9702.0

DATE: 30/05/2024
TESTPIT DEPTH: 2.4m
COORDINATES: East 1318837.5 North 5015973.8
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT [%]	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50100150									
TS	Organic SILT; dark brown. Moist, firm, low plasticity.	754.9 0.1 754.8		M							
Quaternary Deposits	Silty GRAVEL with some sand and trace cobbles; light brownish grey. Clast supported. Dry, loose, non-plastic. Gravels; medium to coarse, angular to subangular, derived from schist; Cobbles; up to 120mm, angular to subangular, derived from schist. (Alluvial Fan)			D							
	Moist and brownish grey.	0.9 754.0		1	L						
					M						
				2							
TZ3	Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 380mm, boulders angular to subangular schist (Completely weathered schist)	2.2 752.7 2.4			W	H					
EOH: 2.40 m											

LOGGED: JF

CHECKED: PC EXCAVATOR: 20T Excavator

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:51:10 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: EGLTP08 SHEET 1 OF 1 Job No.: 9702.0									
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: 754.9m DATUM: NZVD2016		DATE: 30/05/2024 TESTPIT DEPTH: 2.9m COORDINATES: East 1318895.2 North 5015999.4 GRID: NZTM 2000											
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION		DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
												● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS		Organic SILT; dark brown. Moist, firm, low plasticity.		754.9 0.1 754.8									
Quaternary Deposits		Silty GRAVEL with some sand and trace cobbles; brownish grey. Moist, loose, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular, derived from schist. (Alluvial Fan)											
		Moist and brownish grey.		0.6 754.3			M						
		Wet and dark brownish grey.		1.4 753.5			L						
		Silty COBBLES with minor gravel; grey. Wet, dense, non-plastic. Clast supported. Gravels; medium to coarse, angular to subangular, derived from schist. Cobbles; up to 150mm, angular to subangular, derived from schist (Alluvial Fan)		1.9 753.0				W	MD				
TZ		Silty CLAY; dark grey. Wet, hard, moderate plasticity. Foliation and mica structures visible (Completely weathered schist)		2.8 752.1 2.9				H					
EOH: 2.90 m													
NOTES: Logged by EGL staff. Refusal at 2.9m Groundwater not encountered.							LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator						



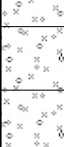
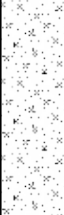
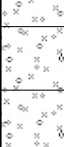
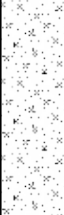
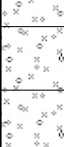
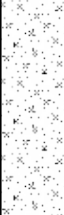
TESTPIT No.:	EGLTP09
SHEET 1 OF 1	
Job No.:	9702 0

DATE: 30/05/2024
TESTPIT DEPTH: 1.3m
COORDINATES: East 1318988.0 North 5016000.6
GRID: NZTM 2000

GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS		Organic SILT; dark brown. Moist, firm, low plasticity.	761.0								50 100 150	
Quaternary Deposits		Gravelly SILT with some clay and minor sand; brownish grey. Moist, stiff, low plasticity. Clast supported. Gravels; fine to coarse angular to subangular, derived from quartz rich schist. (Alluvial Fan)	760.8		M		St			Groundwater Not Encountered		
		Silty GRAVEL with minor cobbles and trace boulders; brownish grey. Moist, dense, non-plastic. Clast supported. Gravels; medium to coarse, angular to subangular, derived from schist. Cobbles; up to 120mm, angular to subangular, derived from schist. Boulders up to 300mm, angular to subangular, derived from schist. (Alluvial Fan)	760.3			D						
		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 350mm, boulders angular to subangular schist (Completely weathered schist)	759.8			H						
		EOH: 1.30 m										

LOGGED: JF

CHECKED: PC EXCAVATOR: 20T Excavator

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: EGLTP10																																																																																																										
				SHEET 1 OF 1																																																																																																										
				Job No.: 9702.0																																																																																																										
PROJECT: BOGP Test Pits				DATE: 30/05/2024																																																																																																										
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 2.7m																																																																																																										
RL GROUND: 759.3m				COORDINATES: East 1319080.1 North 5015894.0																																																																																																										
DATUM: NZVD2016				GRID: NZTM 2000																																																																																																										
<table><tr><td>GEOLOGICAL UNIT</td><td>SOIL MATERIAL DESCRIPTION</td><td>DEPTH / RL</td><td>GRAPHIC LOG</td><td>DEPTH (m)</td><td>MOISTURE CONDITION</td><td>CONSISTENCY / DENSITY</td><td>SAMPLES</td><td>WATER CONTENT (%)</td><td>SEEPAGE / WATER LEVEL</td><td>CORRECTED VANE SHEAR STRENGTH (kPa)</td><td>FIELD TESTS</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>● Field Vane (BS 1377) ○ Remoulded Field Vane</td><td></td></tr><tr><td></td><td></td><td>50100150</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>TS</td><td>Organic SILT; dark brown. Moist, firm, low plasticity.</td><td>759.3 0.1 759.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td rowspan="4">Quaternary Deposits</td><td>Gravelly SILT some clay minor sand; brownish grey with reddish brown layers. Moist, stiff, low plasticity. Matrix supported. Gravels; fine to coarse, angular to subangular, derived from quartz rich schist. (Alluvial Fan) 0.3m - 0.5m: Black organic layers up to approximately 50mm thick present</td><td>0.7 758.6</td><td></td><td></td><td>M</td><td>St</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Sandy SILT with some gravel; light brown mottled reddish brown. Moist, stiff, low plasticity. Gravels; fine to medium, angular to subangular, derived from quartz rich schist. (Alluvial Fan)</td><td>1.4 757.9</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Silty GRAVEL with trace cobbles; brownish grey. wet, medium dense, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular, derived from schist. Cobbles; up to 140mm, angular to subangular, derived from schist. (Alluvial Fan)</td><td>1.8 757.5</td><td></td><td></td><td>MD</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>COBBLES with some silt trace sand and gravel; grey. Wet, dense, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular derived from schist. Cobbles; up to 150mm, angular to subangular derived from schist. (Alluvial Fan)</td><td>2.6 756.7 2.7</td><td></td><td>2</td><td>W</td><td>D</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>123</td><td>Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 300mm, boulders angular to subangular schist (Completely weathered schist)</td><td>EOH: 2.70 m</td><td></td><td></td><td>S</td><td>H</td><td></td><td></td><td></td><td></td><td></td></tr></table>						GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS											● Field Vane (BS 1377) ○ Remoulded Field Vane				50100150										TS	Organic SILT; dark brown. Moist, firm, low plasticity.	759.3 0.1 759.2										Quaternary Deposits	Gravelly SILT some clay minor sand; brownish grey with reddish brown layers. Moist, stiff, low plasticity. Matrix supported. Gravels; fine to coarse, angular to subangular, derived from quartz rich schist. (Alluvial Fan) 0.3m - 0.5m: Black organic layers up to approximately 50mm thick present	0.7 758.6			M	St						Sandy SILT with some gravel; light brown mottled reddish brown. Moist, stiff, low plasticity. Gravels; fine to medium, angular to subangular, derived from quartz rich schist. (Alluvial Fan)	1.4 757.9		1								Silty GRAVEL with trace cobbles; brownish grey. wet, medium dense, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular, derived from schist. Cobbles; up to 140mm, angular to subangular, derived from schist. (Alluvial Fan)	1.8 757.5			MD							COBBLES with some silt trace sand and gravel; grey. Wet, dense, non-plastic. Clast supported. Gravels; fine to coarse, angular to subangular derived from schist. Cobbles; up to 150mm, angular to subangular derived from schist. (Alluvial Fan)	2.6 756.7 2.7		2	W	D						123	Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 300mm, boulders angular to subangular schist (Completely weathered schist)	EOH: 2.70 m			S	H					
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS																																																																																																			
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123	Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 300mm, boulders angular to subangular schist (Completely weathered schist)	EOH: 2.70 m			S	H																																																																																																								
NOTES: Logged by EGL staff. Refusal at 2.7m. Groundwater at 2.0m.						LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator																																																																																																								

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				TEST PIT LOG				TESTPIT No.: EGLTP11 SHEET 1 OF 1 Job No.: 9702.0				
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: 825.5m DATUM: NZVD2016				DATE: 30/05/2024 TESTPIT DEPTH: 0.4m COORDINATES: East 1318905.6 North 5015708.8 GRID: NZTM 2000								
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
TS		Organic SILT; dark brown. Moist, firm, low plasticity.	825.5								● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TZ4		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported. Boulders; up to 300mm, boulders angular to subangular schist (Completely weathered schist)	0.2 825.3 0.4			M	H			dwater Not Encou		
EOH: 0.40 m												
NOTES: Logged by EGL staff. Refusal at 0.4m. Groundwater not encountered.						LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator						

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:51:12 am - Produced with Core-GS by Geroc

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: 825.5m DATUM: NZVD2016				DATE: 30/05/2024 TESTPIT DEPTH: 0.3m COORDINATES: East 1318819.0 North 5015847.0 GRID: NZTM 2000								
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	FIELD TESTS
TZ 4	TS	Organic SILT; dark brown. Moist, firm, low plasticity.	825.5			M	F			water Not Enc		
		Bouldery CLAY; dark grey. Saturated, hard, moderate plasticity. Foliation and mica structures visible. Matrix supported.	0.2				H					
		Boulders; up to 350mm, boulders angular to subangular schist (Completely weathered schist)	825.3 0.3									
EOH: 0.30 m												
NOTES: Logged by EGL staff. Refusal at 0.3m. Groundwater not encountered.						LOGGED: JF CHECKED: PC EXCAVATOR: 20T Excavator						



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP01

Photographed by: J. Frengley



Testpit at completion. Max depth 2.5m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP02

Photographed by: J. Frengley



Testpit at completion. Max depth 1.9m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP03

Photographed by: J. Frengley



Testpit at completion. Max depth 1.8m



Spoil pile at end of excavation



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Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP04

Photographed by: J. Frengley



Testpit at completion. Max depth 2.6m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP05

Photographed by: J. Frengley



Testpit at completion. Max depth 0.9m



Spoil pile at end of excavation



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EGL Job No:

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Date:

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TESTPIT No: EGLTP06

Photographed by: J. Frengley



Testpit at completion. Max depth 2.4m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

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Date:

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TESTPIT No: EGLTP07

Photographed by: J. Frengley



Testpit at completion. Max depth 2.4m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP08

Photographed by: J. Frengley



Testpit at completion. Max depth 2.9m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

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TESTPIT No: EGLTP09

Photographed by: J. Frengley



Testpit at completion. Max depth 1.3m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP10

Photographed by: J. Frengley



Testpit at completion. Max depth 2.7m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No:

9702

Date:

September 2024

TESTPIT No: EGLTP11

Photographed by: J. Frengley



Testpit at completion. Max depth 0.4m



Spoil pile at end of excavation



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Project:

Bendigo Ophir Gold Project

EGL Job No: 9702

Date:

September 2024

TESTPIT No: EGLTP012

Photographed by: J. Frengley



Testpit at completion. Max depth 0.3m



Spoil pile at end of excavation



TESTPIT No.: MTP01
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1316670.6 North 5018867.0
GRID: NZTM 2000

[illegible]

EOH: 6.00 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 6.0m.
Groundwater at 5.6m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP02
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1316356.0 North 5018713.0
GRID: NZTM 2000

[illegible]

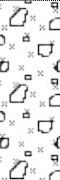
EOH: 6.00 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 6.0m.
Groundwater at 4.0m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 28/08/2024 TESTPIT DEPTH: 4.0m COORDINATES: East 1316387.0 North 5018772.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT; light brown. Dry, loose, non plastic.	0.0				L					
Quaternary Deposits	Fine sandy SILT with minor clay; light greenish brown. Dry, firm, moderately plasticity. (Alluvial Fan)	0.4			D						
	Fine sandy SILT with minor clay; light green. Moist, Firm, moderate plasticity. (Alluvial Fan)	0.7		1		F					
	Medium grained sandy GRAVEL with minor cobbles and boulders; dark greenish grey. Saturated, loose, non plastic. Gravel; Medium to coarse, subangular. Cobbles; subrounded to subangular. Boulders up to 350mm, subangular. (Alluvial Fan)	2.5		3							
TZ4	Cobbly SILT; dark green gray. Saturated, loose, low plasticity. Cobbles; Sub angular to angular. (Alluvial Fan)	3.1			S	L		3.4m, 01/01/2024			
EOH: 4.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Refusal at 4.0m Groundwater at 3.0m. Groundwater not encountered.					LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator						



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TEST PIT
LOG

TESTPIT No.: MTP04

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 4.1m
COORDINATES: East 1316380.0 North 5018755.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Organic SILT trace clay dark brown. Moist, loose, low plasticity.	0.0			M						
	Fine to medium GRAVEL with minor clay and silt; light brown. Dry, loose, low plasticity. Gravel; fine to medium, subrounded to subangular. (Holocene Landslide Deposits)	-0.1			L						
	SILT with minor CLAY; light whitish green. Dry, Firm, low plasticity. (Holocene Landslide Deposits)	-0.3			F						
	Coarse gravelly SILT with minor fine sand; trace clay, light green. Dry, loose, low plasticity. Gravel; coarse, subrounded to subangular. (Holocene Landslide Deposits)	-1.0		1	L						
	SILT with minor medium sand trace clay; light green. Moist, firm, low plasticity. (Holocene Landslide Deposits)	-1.5		2	F						
	Fine sandy GRAVEL with trace silt and clay; light gray brown. Moist, loose, low plasticity. Gravel; Medium, subangular. (Holocene Landslide Deposits)	-3.0		3	L						
N	Fine GRAVEL with minor sand trace silt and clay; dark gray. Moist, hard, low plasticity. Gravel; Fine, subangular.	-4.0		4	H						

EOH: 4.10 m

NOTES: Logged by Matakani staff, digitised by EGL staff.
Refusal at 4.1m.
Groundwater not encountered.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP05
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1316420.0 North 5018812.0
GRID: NZTM 2000

GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / HEAD / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
											● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	
TS		Organic SILT; dark brown. Moist, loose, low plasticity.	0.0 0.2 -0.2							0.0		
Quaternary Deposits		Medium GRAVEL with minor silt; light whitish brown. Moist, loose, non plastic. Gravel; fine to medium, subrounded. (Holocene Landslide Deposits)			1	M	L					
		Fine sandy SILT with minor CLAY; light green. Dry, Firm, moderate plasticity. (Alluvial Fan)	2.5 -2.5		3							
		Medium sandy GRAVEL; light grayish green. Dry, firm, low plasticity. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	3.5 -3.5		4	D	F					
					5							
TZ3		Fine sandy CLAY with trace gravels, light orangish blue. Moist, very soft, moderate plasticity. Gravel; fine, subrounded to subangular. (Alluvial Fan)	6.5 -6.6			M	VS					
		Medium sandy GRAVEL; light gray green. Dry, Firm, low plasticity. Gravel; fine to coarse, subangular.	7.0			D	F					
			EOH: 7.00 m									

LOGGED: FS
CHECKED: PC EXCAVATOR: 20T Excavator



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TEST PIT
LOG

TESTPIT No.: MTP06

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1316414.0 North 5018801.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS	Fine sandy organic SILT; dark brown. Moist, loose low plasticity.	0.0 0.2 -0.2			M	L				50 100 150	
Quaternary Deposits	Organic CLAY trace fine gravels; light whitish brown. Dry, Firm, low plasticity. Gravel; fine, subrounded. (Holocene Landslide Deposits)	1.2 -1.2		1	D	F					
	Clayey SILT with minor gravels and trace cobbles, light greenish gray. Dry, firm, low plasticity. Gravels; fine to coarse, subangular. Cobbles; up to 150mm, subangular to angular. (Holocene Landslide Deposits)	2.2 -2.2		2							
	Bouldery COBBLES; Light green. Wet, very dense, non plastic. Cobbles; up to 200mm, subangular to angular. Boulders up to 250mm, subangular to angular. (Alluvial Fan)	3.0 -3.0		3							
		4.0 -4.0		4							
		5.0 -5.0		5	W	VD					
		6.0 -6.0		6							
		7.0 -7.0									

EOH: 7.00 m

NOTES: Logged by Matakanui staff, digitised by EGL staff.
Target depth at 7.0m.
Groundwater at 5.0m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:37:07 am - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: MTP07							
				SHEET 1 OF 1							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits				DATE: 28/08/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 6.0m							
RL GROUND:				COORDINATES: East 1316356.4 North 5018866.5							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50100150									
TS	Organic SILT with minor medium Gravel trace clay; dark brown. Moist, loose, low plasticity.	0.0 0.2 -0.2	TS		M	L			0.0		
Quaternary Deposits	Coarse sandy GRAVEL; dark brown red. Dry, firm, low plasticity. Gravel; fine to medium, subangular. (Holocene Landslide Deposits)			1		F					
				2							
	Coarse GRAVEL with minor clay; light gray green. Dry, dense, non plastic. Gravel; coarse, subrounded to subangular. (Alluvial Fan)	2.2 -2.2		3	D						
	Fine sandy COBBLES with minor medium gravel; light gray. Dry, loose, low plasticity. Gravels; fine to coarse, subangular. Cobbles; up to 150mm, subangular to angular. (Alluvial Fan)	3.5 -3.5		4		L					
TZ3	Clayey SILT trace medium gravels; light gray blue. Dry, firm, moderate, plasticity. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	5.0 -5.0		5		F					
	GRAVEL with minor silt; light gray. Dry, hard, non plastic. Gravel; fine to medium, subrounded to subangular.	-5.1 6.0				H					
EOH: 6.00 m											
NOTES: Logged by Matakaniui staff, digitised by EGL staff. Refusal at 6.0m Groundwater not encountered.						LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator					



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TEST PIT
LOG

TESTPIT No.: MTP08
SHEET 1 OF 1
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 5.0m
COORDINATES: East 1316041.0 North 5019118.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
TS Quaternary Deposits	Organic SILT; dark brown. Moist, soft, low plasticity.	0.0			M	S					
	Medium sandy organic SILT with minor clay; light brown. Dry, Firm, low plasticity. (Holocene Landslide Deposits)	0.3 -0.3				F					
	GRAVEL with minor clay; light grayish brown. Dry, hard, low plasticity. Gravel; fine to medium, subrounded to subangular. (Holocene Landslide Deposits)	1.0 -1.0		1							
				2	D						
				3		H					
	CLAY with minor silt trace gravel, light gray white. Moist, firm, low plasticity. Gravel; fine, subrounded to subangular. (Alluvial Fan)	3.6 -3.6 3.8 -3.8			M	F					
	CLAY with minor fine sand and trace gravel; white. Moist, hard, low plasticity. Gravel; fine, subrounded to subangular. (Alluvial Fan)	4.0 -4.0		4		H					
	COBBLES and BOULDERS with minor coarse sand; light gray. Saturated, loose, non plastic. Cobbles; up to 200mm, subangular to angular. Boulders up to 250mm, subangular to angular. (Alluvial Fan)	4.5 -4.5			S	L					
	GRAVEL with minor medium top coarse sand; light orangish brown. Moist, dense, non plastic. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	5.0			M	D					
EOH: 5.00 m											
								4.5m, 01/01/2024			
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 5.0 Groundwater at 4.5m								LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator			



TESTPIT No.: MTP09
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1316100.0 North 5019058.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
										50 100 150	
Quaternary Deposits	Organic SILT with minor fine sand; dark brown. Moist, Firm, low plasticity.	0.0			M	F					
	Coarse GRAVEL with minor medium gravel and organic silt; light brown. Dry, loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)	0.3 -0.3				L					
	Medium coarse GRAVEL with minor fine sand; light whitish yellow. Dry, medium dense, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)	1.0 -1.0		1							
	Medium sandy GRAVEL; light whitish brown. Dry, medium dense, non plastic. Gravel; fine to medium, subrounded. (Holocene Landslide Deposits)	1.3 -1.3				MD					
	Coarse GRAVEL and COBBLES minor clay; light grey. Dry, firm, low plasticity. Gravel; coarse, subangular. Cobbles; up to 120mm, subrounded to subangular. (Alluvial Fan)	2.0 -2.0		2							
					D						
				3							
						F					
				4							
	GRAVEL; Dark grey. Saturated, loose, non plastic. Gravel; medium to coarse, subrounded to angular. (Alluvial Fan)	5.0 -5.0		5							
					S	L					
				6							
	CLAY silt; dark bluish white. Moist, stiff, highly plasticity. (Alluvial Fan)	6.4 -6.4			M	St					
	GRAVEL fine sand; dark grayish orange. Dry, dense, non plastic. Gravel; fine to medium, subrounded. (Alluvial Fan)	6.5 -6.5			D	D					
		7.0									

EOH: 7.00 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 7.0m.
Groundwater at 5.0m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP10
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1315960.0 North 5019155.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										50 100 150	
TS	Organic SILT; trace clay, dark brown. Moist, Loose, low plasticity.	0.0				L					
Quaternary Deposits	Silty CLAY with minor fine sand; dark brown and yellow. Moist, firm, low plasticity. (Holocene Landslide Deposits)	0.3 -0.3									
	CLayey SILT with minor medium gravel, dark yellowish white. Moist, firm, moderate plasticity. Gravel; fine to medium, subrounded. (Alluvial Fan)	1.2 -1.2		1	M	F					
	CLAY with minor coarse gravel; dark orangish brown. Moist, very soft, low plasticity. Gravel; coarse, subrounded. (Alluvial Fan)	2.2 -2.2		2		VS					
	Silt CLAY; light gray. Dry, firm, low plasticity. (Alluvial Fan)	3.4 -3.4		3	D	F					
	CLAY minor coarse gravel; dark orange brown. Moist, very soft, low plasticity. Gravel; coarse, subrounded. (Alluvial Fan)	3.6 -3.6		4		VS					
				5	M						
				6	S	VSt					
		CLAY; dark blue. Saturated, very stiff, high plasticity. (Alluvial Fan)	5.5 -5.5								
		7.0									

LOGGED: FS
CHECKED: PC EXCAVATOR: 20T Excavator



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TEST PIT
LOG

TESTPIT No.: MTP11
SHEET 1 OF 1
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 5.0m
COORDINATES: East 1315942.0 North 5019119.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS Quaternary Deposits	Organic SILT with minor coarse sand; dark brownish, gray. Moist, loose, low plasticity.	0.0 0.2 -0.2				L					
	Silty CLAY; dark greenish gray. Moist, firm, moderately plasticity. (Alluvial Fan)			1	M	F					
	COBBLES and BOULDERS with minor Gravel: Medium to coarse, dark gray. Wet, loose, low plasticity. Gravel; medium to coarse, subrounded. Cobbles; subrounded to subangular. Boulders up to 250mm, subrounded to subangular. (Alluvial Fan)	2.0 -2.0		2							
	GRAVEL with minor clay; dark grayish orange. Saturated, hard, low plasticity. Gravel; coarse, subangular. (Alluvial Fan)	3.8 -3.8 5.0		4	S	H		3.8m, 01/01/2024			

EOH: 5.00 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Refusal at 5.0m.
Groundwater at 3.8m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



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TEST PIT LOG

TESTPIT No.: MTP12

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1316133.0 North 5018989.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Fine sandy organic SILT; light brown. Moist, loose, low plasticity. Gravelly Coarse sand; light gray. Moist, loose, none plasticity. Gravel; fine to medium, subangular. (Alluvial Fan)	0.9 0.2 -0.2		0.9		L					
	Silt CLAY with minor medium gravel; light whitish yellow. Moist, firm, moderate plasticity. Gravel; medium, subangular. (Alluvial Fan)	2.2 -2.2		2.2	M	F					
	Clayey SILT with minor fine sand; darkish greenish white. Moist, firm, low plasticity. (Alluvial Fan)	3.7 -3.7		3.7							
	Bouldery COBBLES with minor coarse gravel; dark gray. Saturated, loose, non plastic. Gravel; coarse, subangular. Cobbles; subangular to angular. Boulders; up to 300mm, subangular. (Alluvial Fan)	6.0 -6.0		6.0	S	L					

EOH: 6.00 m

NOTES: Logged by Matakanui staff, digitised by EGL staff.
Target depth at 6.0m.
Groundwater at 3.5m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:37:10 am - Produced with Core-GS by Geroc

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 28/08/2024 TESTPIT DEPTH: 6.5m COORDINATES: East 1316232.0 North 5018841.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Fine sandy organic SILT; whitish brown. Dry, loose, non plastic.	0.0				L			0.0		
Quaternary Deposits	Cobbly GRAVEL with trace clay; light whitish yellow. Dry, hard, low plasticity. Gravel; medium to coarse, subangular. Cobbles up to 150mm, subrounded to subangular. (Alluvial Fan)	0.5 -0.5		1							
				2							
				3		D					
				4		H					
				5							
				6							
			6.5								
EOH: 6.50 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Target depth at 6.5m. Groundwater not encountered.					LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator						



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TEST PIT
LOG

TESTPIT No.: MTP14

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 6.5m
COORDINATES: East 1316087.0 North 5019006.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS	Medium sandy organic SILT; dark brown. Moist, firm, non plastic.	0.0 0.2	TS		M	F					
Quaternary Deposits	Cobbly GRAVEL; light brownish white. Dry, loose, non plastic. Gravel; medium to coarse, subangular to angular. Cobbles; up to 175mm, subangular to angular. (Holocene Landslide Deposits)	-0.2 -2.5		1 2	L D						
	Cobbly GRAVEL with minor coarse sand; light whitish brown. Dry, medium dense, non plastic. Gravel; coarse, subangular to angular. Cobbles; up to 120mm, subangular to angular. (Holocene Landslide Deposits)	-2.5 -3.2		3	F						
	Cobbly GRAVEL with minor clay; light brownish white. Moist, stiff, moderate plasticity. Gravel; coarse, subangular to angular. Cobbles; up to 120mm, subangular to angular. (Alluvial Fan)	-3.2 -4.0		4	M St						
	Cobbly GRAVEL; light whitish brown. Moist, stiff, low plasticity. Gravel; medium to coarse, subangular to angular. Cobbles; up to 150mm, subangular to angular. (Alluvial Fan)	-4.0 -5.5		5							
	CLAY with minor fine sand; light bluish orange. Wet, very soft, moderate plasticity. (Alluvial Fan)	-5.5 -6.0		6	W VS						
	CLAY with minor gravel; light bluish white. Wet, very soft, high plasticity. Gravel; coarse, subangular to angular. (Alluvial Fan)	-6.0 -6.5									

EOH: 6.50 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 6.5m.
Groundwater at 6.2m.

LOGGED: FS

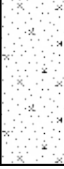
CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 28/08/2024 TESTPIT DEPTH: 4.5m COORDINATES: East 1316144.0 North 5018940.0 GRID: NZTM 2000										
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
											● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS		TOPSOIL, with minor silt; dark brown. Moist, soft, non plastic.	0.0		0.0		S					
Quaternary Deposits		SILT with minor clay; light greenish brown. Moist, very soft, moderate plasticity. (Alluvial Fan)	0.2		0.2	M	VS					
			-0.2									
		Clayey SILT; light orangish blue. Moist, very soft, moderate plasticity. (Alluvial Fan)	2.0		2.0							
		Cobbly coarse SAND with minor gravel; light gray. Saturated, stiff, low plasticity. Gravel; coarse, subangular to angular. Cobbles; up to 120mm, subangular to angular. (Alluvial Fan)	2.6		2.6	S	St		3.2m, 01/01/2024			
			4.5		4.5							
EOH: 4.50 m												
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 4.5m. Groundwater at 3.2m. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator												

EGL - Hand Auger - Test Pit v8 - 1/11/2024 11:37:11 am - Produced with Core-GS by Geroc

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 28/08/2024 TESTPIT DEPTH: 6.5m COORDINATES: East 1316288.0 North 5018828.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50100150									
TS	Organic SILT; dark brown. Moist, very soft, low plasticity.	0.0			M	VS					
	SILT with minor clay; light yellowish white. Dry, soft, low plasticity. (Alluvial Fan)	0.2 -0.2				S					
	SILT with minor fine sand; light greenish white. Dry, very soft, low plasticity. (Alluvial Fan)	1.0 -1.0		1	D	VS					
	Gravelly fine to coarse SAND; light brown. Moist, very stiff, non plastic. Gravel; fine to medium, subangular. (Alluvial Fan)	2.0 -2.0		2							
Quaternary Deposits				3							
				4	M	VSt					
				5							
	COBBLES and BOULDERS with minor fine gravel; dark gray, yellow. Saturated, medium dense, non plastic. Gravel; fine to coarse; subrounded to subangular. Cobbles; subrounded to subangular. Boulders up to 250mm, subrounded. (Alluvial Fan)	5.4 -5.4			S	MD					
	CLAY with minor gravel; dark blackish orange. Moist, very stiff, high plasticity. Gravel; coarse, subrounded. (Alluvial Fan)	6.1 -6.1		6	M	VSt					
		6.5									
EOH: 6.50 m											
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Target depth at 6.5m. Groundwater at 6.0m.					LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator						

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				SHEET 1 OF 1							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits		DATE: 28/08/2024									
LOCATION: Bendigo Ophir Stations		TESTPIT DEPTH: 1.0m									
RL GROUND:		COORDINATES: East 1316345.0 North 5018779.0									
DATUM: NZVD2016		GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
TS	Organic SILT; with minor fine sand, dark brown. Dry, very wet, non plastic.	0.0									
Quaternary Deposits	Fine to medium sandy SILT; light yellowish white. Dry, very soft, low plasticity. (Holocene Landslide Deposits)	0.2									
		-0.2									
		1.0									
EOH: 1.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff.						LOGGED: FS					
Refusal at 1.0m.						CHECKED: PC					
Groundwater not encountered.						EXCAVATOR: 20T Excavator					



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TEST PIT LOG

TESTPIT No.: MTP18

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 6.5m
COORDINATES: East 1316358.0 North 5018814.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)			FIELD TESTS
										50	100	150	
TS Quaternary Deposits	Organic SILT with minor medium sand; light grayish brown. Moist, very soft, non plastic.	0.0	TS			VS							
	Coarse SAND with minor gravel; light gray. Moist, loose, low plasticity. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	-0.2				L							
	SILT with minor clay; yellowish white. Moist, soft, moderate plasticity. (Alluvial Fan)	-1.0		1		S							
	SILT with minor clay; dark gray. Moist, soft, moderate plasticity. (Alluvial Fan)	-1.3				S							
	Gravelly Medium to coarse SAND with minor silt; grayish white. Moist, loose, non plastic. Gravel; fine to medium, subrounded. (Alluvial Fan)	-1.7		2	M	L							
	SILT with minor clay; light whitish yellow. Moist, soft, moderate plasticity. (Alluvial Fan)	-2.1				S							
	GRAVEL with minor medium to coarse sand; light grayish brown. Moist, dense, non plastic. Gravel; fine to medium, subrounded. (Alluvial Fan)	-2.8		3		D							
	SILT with minor clay; light whitish yellow. Moist, soft, moderate plasticity. (Alluvial Fan)	-3.0				S							
	COBBLES and BOULDERS with minor gravel; light whitish grey. Saturated, medium dense, low plasticity. Gravel; fine to coarse; subrounded to subangular. Cobbles; subrounded to subangular. Boulders up to 250mm, subrounded. (Alluvial Fan)	-3.5		4									
	CLAY with trace gravel; dark bluish orange. Saturated, loose, moderate plasticity. Gravel; coarse, subrounded to subangular. (Alluvial Fan)	-6.3 -6.3 -6.5				VS							

EOH: 6.50 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 6.5m.
Groundwater at 4.0m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: MTP19							
				SHEET 1 OF 1							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits				DATE: 28/08/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 2.5m							
RL GROUND:				COORDINATES: East 1316306.0 North 5018800.0							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT with minor medium sand; light gray, brown. Moist, very soft, non plastic.	0.0			M	S			0.0		
Quaternary Deposits	GRAVEL with minor medium sand; light whitish brown. Dry, dense, non plastic. Gravel; fine to coarse, subrounded to angular. (Holocene Landslide Deposits)	-0.2				D					
	SILT with minor fine sand and trace clay; light brownish gray. Dry, soft, low plasticity. (Holocene Landslide Deposits)	-1.0		1		S					
	GRAVEL with minor fine sand trace cobbles; light grayish white. Dry, hard, non plastic. Gravel; coarse, subangular to angular. Cobbles; up to 150mm, subrounded to angular. (Holocene Landslide Deposits)	-1.5		2		H					
			2.5								
EOH: 2.50 m											
NOTES: Logged by Matakaniui staff, digitised by EGL staff. Refusal at 2.5m. Groundwater not encountered.						LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator					

EGL - Hand Auger - Test Pit v8 - 2/12/2024 12:42:58 pm - Produced with Core-GS by Geroc

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz <tr><td colspan="2"> TEST PIT LOG </td><td colspan="2"> TESTPIT No.: MTP20 </td></tr> <tr><td colspan="2"> SHEET 1 OF 1 </td><td colspan="2"> Job No.: 9702.0 </td></tr> <tr><td colspan="2"> PROJECT: BOGP Test Pits </td><td colspan="2"> DATE: 28/08/2024 </td></tr> <tr><td colspan="2"> LOCATION: Bendigo Ophir Stations </td><td colspan="2"> TESTPIT DEPTH: 5.5m </td></tr> <tr><td colspan="2"> RL GROUND: </td><td colspan="2"> COORDINATES: East 1316428.0 North 5018725.0 </td></tr> <tr><td colspan="2"> DATUM: NZVD2016 </td><td colspan="2"> GRID: NZTM 2000 </td></tr> <tr><td> GEOLOGICAL UNIT </td><td> SOIL MATERIAL DESCRIPTION </td><td> DEPTH / RL </td><td> GRAPHIC LOG </td><td> DEPTH (m) </td><td> MOISTURE CONDITION </td><td> CONSISTENCY / DENSITY </td><td> SAMPLES </td><td> WATER CONTENT (%) </td><td> SEEPAGE / WATER LEVEL </td><td> CORRECTED VANE SHEAR STRENGTH (kPa) </td><td> FIELD TESTS </td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td rowspan="10">Quaternary Deposits</td><td>Coarse GRAVEL with minor fine sand; dark brownish black. Moist, Loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)</td><td>0.0</td><td rowspan="3"></td><td rowspan="3">1</td><td rowspan="3">L</td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3">0.0</td><td rowspan="3"></td><td rowspan="3"></td></tr> <tr><td>GRAVEL with minor coarse sand; dark whitish brown. Moist, Loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)</td><td>0.2</td></tr> <tr><td>Fine to coarse sandy GRAVEL; light grayish cream. Moist, Loose, non plastic. Gravel; fine to medium, subrounded. (Holocene Landslide Deposits)</td><td>-0.2</td></tr> <tr><td></td><td></td><td>0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-0.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-1.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>1.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-1.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-2.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>3.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-3.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>5.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>-5.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="12"> EOH: 5.50 m </td></tr> <tr><td colspan="12"> NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 5.5m. Groundwater not encountered. </td></tr> <tr><td colspan="12"> LOGGED: FS </td></tr> <tr><td colspan="12"> CHECKED: PC </td></tr> <tr><td colspan="12"> EXCAVATOR: 20T Excavator </td></tr>		TEST PIT LOG		TESTPIT No.: MTP20		SHEET 1 OF 1		Job No.: 9702.0		PROJECT: BOGP Test Pits		DATE: 28/08/2024		LOCATION: Bendigo Ophir Stations		TESTPIT DEPTH: 5.5m		RL GROUND:		COORDINATES: East 1316428.0 North 5018725.0		DATUM: NZVD2016		GRID: NZTM 2000		GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS													Quaternary Deposits	Coarse GRAVEL with minor fine sand; dark brownish black. Moist, Loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)	0.0		1	L				0.0			GRAVEL with minor coarse sand; dark whitish brown. Moist, Loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)	0.2	Fine to coarse sandy GRAVEL; light grayish cream. Moist, Loose, non plastic. Gravel; fine to medium, subrounded. (Holocene Landslide Deposits)	-0.2			0.5											-0.5											1.0											-1.0											1.6											-1.6											2.0											-2.0											3.0											-3.0											5.5											-5.5									EOH: 5.50 m												NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 5.5m. Groundwater not encountered.												LOGGED: FS												CHECKED: PC												EXCAVATOR: 20T Excavator											
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Quaternary Deposits	Coarse GRAVEL with minor fine sand; dark brownish black. Moist, Loose, non plastic. Gravel; fine to coarse, subrounded. (Holocene Landslide Deposits)	0.0		1	L				0.0																																																																																																																																																																																																																																																								
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 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: MTP21 SHEET 1 OF 1 Job No.: 9702.0								
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 28/08/2024 TESTPIT DEPTH: 2.5m COORDINATES: East 1317720.0 North 5018320.0 GRID: NZTM 2000										
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
											● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
Quaternary Deposits	1.0 Medium sandy organic SILT with minor medium gravel; light brown gray. Moist, Loose, non plastic.		0.9		0.9	M				0.0		
	Gravelly COBBLES with minor coarse sand; light brown gray.											
	Dry, Loose, low plasticity. Gravel; coarse, subangular to angular. Cobbles; up to 150mm, subangular to angular. (Alluvial Fan)											
	Cobbly BOULDERS with minor gravel and trace clay; light gray. Dry, dense, non plastic. Gravel; coarse, subangular to angular. Cobbles; angular, platy. Boulders; angular platy. (Alluvial Fan)											
			1.0		D	L						
			2.0									
			2.5									
EOH: 2.50 m												
NOTES: Logged by Matakau staff, digitised by EGL staff. Refusal at 2.5m. Groundwater not encountered.												
LOGGED: FS CHECKED: PC						EXCAVATOR: 20T Excavator						



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TEST PIT LOG

TESTPIT No.: MTP22

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 5.5m
COORDINATES: East 1317605.0 North 5018412.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Organic SILT some clay trace to some gravel; light brown. Moist, loose, low plasticity. Gravelly fine to coarse SAND; light brown. Moist, dense, non plastic. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	0.0 -0.1									
	PEAT with minor fine sand; trace clay dark brownish gray. Moist, soft, moderate plasticity. (Alluvial Fan)	2.4 -2.4									
	COBBLES and BOULDERS minor silt and clay; dark greenish, gray. Saturated, hard, low plasticity. Cobbles; angular, platy. Boulders; angular platy. (Alluvial Fan)	2.8 -2.8									
		5.5									

EOH: 5.50 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Refusal at 5.5m.
Groundwater at 3.8m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP23
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1316871.0 North 5018638.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS			
										● Field Vane (BS 1377) ○ Remoulded Field Vane		50	100	150
TS	Fine sandy organic SILT with minor medium gravel; light brown. Moist, loose, non plastic.	0.0 -0.2				L								
Quaternary Deposits	Clayey SILT with minor gravel; light greenish white. Moist, firm, moderate plasticity. Gravel; coarse, subangular. (Alluvial Fan)	-0.2				F								
	GRAVEL with minor fine sand trace clay; light gray. Moist, loose, low plasticity. Gravel; coarse, subangular. (Alluvial Fan)	1.0 -1.1		1			L							
	Clayey SILT with minor gravel; light greenish white. Moist, firm, moderate plasticity. Gravel; coarse, subangular. (Alluvial Fan)	-1.1			M									
	Cobbly GRAVEL with minor fine to coarse sand and trace clay; light grayish white. Moist, hard, low plasticity. Gravel; fien to medium, subangular. (Alluvial Fan)	1.6 -1.6		2		H								
	COBBLES with minor Boulders; dark gray. Saturated, loose, non plastic. Cobbles; angular, platy. Boulders; angular platy. (Alluvial Fan)	3.0 -3.0		3										
				4	S	L								
				5										
	CLAY with minor gravel; light orange. Wet, very soft, moderate plasticity. Gravel; coarse, angular. (Alluvial Fan)	5.6 -5.8			W	VS								
	GRAVEL with minor clay; light orange. Saturated, very soft, low plasticity. GRAVEL: coarse, Angular, unweathered, schist. (Alluvial Fan)	-5.8 6.0			S									
		EOH: 6.00 m												

LOGGED: FS

CHECKED: PC EXCAVATOR: 20T Excavator

EGL - Hand Auger - Test Pit v8 - 2/12/2024 12:38:06 pm - Produced with Core-GS by Geroc

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016				DATE: 28/08/2024 TESTPIT DEPTH: 7.5m COORDINATES: East 1316764.0 North 5018601.0 GRID: NZTM 2000								
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
TS		Organic SILT with some medum gravel minor medium sand; light brown. Dry, loose, low plasticity.	0.0				L			0.0		
		Medium to coarse sandy GRAVEL; light brownish white. Dry, dense, non plastic. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	0.2				D					
			-0.2		1							
			1.2									
		Fine sandy SILT with minor gravel; light whitish orange. Dry, firm, low plasticity. Gravel; fine to medium, subrounded to subangular. (Alluvial Fan)	-1.5				F					
			-1.8		2		H					
		GRAVEL with minor sand; light whitish orange. Dry, hard, low plasticity. Gravel; fine to coarse, subrounded to subangular. (Alluvial Fan)	-1.8									
					3							
					4							
					5		D					
		Cobbly BOULDERS with minor fine sand; light white yellow. Dry, dense, non plastic. Cobbles; subrounded to subangular. Boulders; up to 250mm subrounded to subangular. (Undifferentiated Quaternary landslide deposits)	4.5									
			-4.5		6							
					7							
			7.5									
EOH: 7.50 m												
NOTES: Logged by Matakau staff, digitised by EGL staff. Target depth at 7.5m. Groundwater not encountered.										LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator		



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TEST PIT LOG

TESTPIT No.: MTP25

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 28/08/2024
TESTPIT DEPTH: 4.5m
COORDINATES: East 1316746.0 North 5018646.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Medium GRAVEL with minor medium sand; dark brown. Moist, loose, non plastic.	0.0		1	M	L					
	Medium to coarse GRAVEL with minor medium sand; light brownish red. Moist, loose, non plastic. Gravel; fine to coarse, subrounded to subangular. (Alluvial Fan)	-0.2									
	SILT with trace cobbles; light brownish white. Moist, soft, moderate plasticity. Cobbles; up to 120mm, subrounded. (Alluvial Fan)	-1.0									
	GRAVEL with minor fine to coarse sand; light gray. Moist, loose, non plastic. Gravel; fine to medium, subangular. (Alluvial Fan)	-1.5									
	Fine to coarse sandy GRAVEL; light grayish brown. Moist, loose, non plastic. Gravel; fine to medium, subangular. (Alluvial Fan)	-2.0									
	SILT with minor cobbles; light brownish white. Moist, soft, moderate plasticity. Cobbles; up to 120mm, subrounded. (Alluvial Fan)	-2.2									
	CLAY silt with minor fine sand; dark green gray. Moist, firm, high plasticity. (Alluvial Fan)	-2.9									
	GRAVEL with minor medium sand; dark gray. Wet, hard, low plasticity. Gravel; fine to coarse, subangular. (Alluvial Fan)	-3.5									
	SILT with minor fine sand; dark greenish gray. Wet, soft, moderate plasticity. (Alluvial Fan)	-3.8									
	COBBLE with minor clay; Wet, stiff, moderate plasticity. Cobbles; up to 150mm, subrounded. (Alluvial Fan)	-4.5									

EOH: 4.50 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Refusal at 4.5m.
Groundwater at 3.0m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP26
SHEET 1 OF 1
Job No.: 9702.0

DATE: 28/08/2024
TESTPIT DEPTH: 3.5m
COORDINATES: East 1316056.0 North 5018915.0
GRID: NZTM 2000

[illegible]

EOH: 3.50 m

EXCAVATOR: 20T Excavator



TESTPIT No.: MTP27
SHEET 1 OF 1
Job No.: 9702.0

DATE: 08/10/2024
TESTPIT DEPTH: 3.0m
COORDINATES: East 1319109.0 North 5017662.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)			FIELD TESTS
										● Field Vane (BS 1377)	○ Remoulded Field Vane		
										50	100	150	
TS	TOPSOIL; minor fine sand, light brown. Very soft, moist, low plasticity.	0.0			M	VS							
	Medium sandy GRAVEL; Light yellow grey. Dry, soft, low plasticity. Gravel; fine to coarse, subangular, loose. (Alluvial Fan)	0.2 -0.2											
	Fine sandy SILT with minor clay; Light yellow grey. Dry, firm, moderately plasticity. (Alluvial Fan)	0.4 -0.4											
	Fine sandy SILT with minor clay. light yellow grey. Dry, firm, weakly plastic. (Alluvial Fan)	1.0 -1.0		1		L							
Quaternary Deposits													
TZ3	COBBLE with minor clay; Dry, stiff, moderate plasticity. Cobbles; up to 180mm, angular, platy.	2.5 -2.5		2									
		3.0				St							

EOH: 3.00 m

EXCAVATOR: 20T Excavator

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz		TEST PIT LOG		TESTPIT No.: MTP28 SHEET 1 OF 1 Job No.: 9702.0								
PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 08/10/2024 TESTPIT DEPTH: 1.8m COORDINATES: East 1319221.0 North 5017654.0 GRID: NZTM 2000										
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS	
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150		
TS	fine sandy organic SILT; dark brown. Moist, soft, low plasticity.	0.0										
Quaternary Deposits	Fine to coarse sandy GRAVEL; dark brownish grey. Moist, loose, non plastic. Gravel; coarse, subangular. (Alluvial Fan)	-0.3										
	Fine SAND with minor organic silt; dark grayish black. Moist, loose, non plastic. (Alluvial Fan)	-0.4										
	Gravelly coarse SAND with minor organic silt; grayish black. Wet, loose, non plastic. Gravel; fine to medium, subangular. (Alluvial Fan)	-0.5										
	Silty fine SAND with minor organic silt; greenish gray. Moist, loose, non plastic. (Alluvial Fan)	-0.8										
	Clayey SILT with minor fine sand; blackish gray. Moist, soft, moderate plasticity. (Alluvial Fan)	-1.3										
		1.8										
EOH: 1.80 m												
NOTES: Logged by Matakanui staff, digitised by EGL staff. Refusal at 2.0m. Groundwater at 1.8m.												
LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator												



TESTPIT No.: MTP29
SHEET 1 OF 1
Job No.: 9702.0

DATE: 08/10/2024
TESTPIT DEPTH: 3.0m
COORDINATES: East 1318550.0 North 5017889.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
										50 100 150	
TS	Fine sandy organic SILT; dark brown. Moist, soft, low plasticity.	0.0 0.1 -0.1									
Quaternary Deposits	Coarse sandy GRAVEL; dark brown. Moist, loose, non plastic. Gravel; fine to coarse, subangular. (Alluvial Fan)	0.4 -0.4			L						
	Fine sandy organic SILT; dark brown. Moist, soft, low plasticity. (Paleosol)	0.6 -0.6									
	Silty fine SAND; dark yellow. Moist, firm, moderate plasticity. (Alluvial Fan)	1.2 -1.2		1	M	F					
	Clayey SILT with minor fine sand; dark greenish. Moist, firm, moderate plasticity. (Alluvial Fan)	1.5 -1.5									
	Clayey COBBLES with minor gravel; dark gray. Wet, hard, low plasticity. Gravel; medium to coarse, subangular to angular. Cobbles up to 150mm, subangular. (Alluvial Fan)	2.1 -2.1		2	W	H					
TZ3	Silty Boulders; Dark gray. Saturated, dense, non plastic. Boulders; angular to subangular, up to 250mm.	3.0 -3.0			S	D					

EOH: 3.00 m

EXCAVATOR: 20T Excavator



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TEST PIT
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TESTPIT No.: MTP30

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 08/10/2024
TESTPIT DEPTH: 4.0m
COORDINATES: East 1318491.0 North 5017956.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS	Fine to corase sandy organic SILT; dark brown. Moist, soft, low plasticity.	0.0		0.0	D	S					
Quaternary Deposits	GRAVEL with minor fine sand; brown. Moist, loose, non plastic. Gravel; medium to coarse, subangular to angular. (Alluvial Fan)	0.2 -0.2				L					
	Silty CLAY with minor gravel; dark brown. Moist, firm, moderate plasticity. Gravel; fine, subangular. (Alluvial Fan)	0.5 -0.5		1		F					
					M						
	Gravelly SILT; dark bluish gray. Moist, soft, low plasticity. Gravel; medium to coarse, subangular to angular. (Alluvial Fan)	1.4 -1.4				S					
	Gravelly COBBLES; light orange brown. Moist, loose, low plasticity. Gravels; medium to coarse, subangular to angular. Cobbles; up to 150mm, subangular. (Alluvial Fan)	1.6 -1.6		2							
	Cobbely BOULDERS with minor gravel; dark grayish green. Wet, loose, low plasticity. Gravel; medium to coarse, subangular to angular. Cobbles; subangular. Boulders up to 250mm, subangular to angular. (Alluvial Fan)	2.0 -2.0		3		L					
TZ3	Silty BOULDERS; Dark gray. Saturated, dense, non plastic. Boulders; angular to subangular, up to 250mm.	3.7 -3.7			S	D					
		4.0									

EOH: 4.00 m

NOTES: Logged by Matakanui staff, digitised by EGL staff.
Refusal at 3.5m
Groundwater at 3.5m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator



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TEST PIT
LOG

TESTPIT No.: MTP31

SHEET 1 OF 1

Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 08/10/2024
TESTPIT DEPTH: 2.5m
COORDINATES: East 1318383.0 North 5017970.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50								100	
										150	
TS	Gravelly organic SILT with minor clay; dark brown. Moist, firm, low plasticity. Gravels; medium to coarse, subangular.	0.0				F					
Quaternary Deposits		0.3				S					
	Silty fine SAND with minor clay; light creamy yellow. Moist, soft, low plasticity. (Alluvial Fan)	-0.3									
		0.5									
	Silty CLAY; light bluish yellow. Moist, stiff, moderate plasticity. (Alluvial Fan)	-0.5			M	St					
		1.0		1							
	Silty CLAY with minor gravel; light bluish gray. Moist, firm, moderate plasticity. Gravel; fine to medium, subangular. (Alluvial Fan)	-1.0				F					
		1.2				VS					
	Silty organic CLAY; dark brownish grey. Moist, soft, low plasticity. (Alluvial Fan)	-1.2			W	L					
	Gravelly COBBLES; dark grayish brown. Wet, loose, non plastic. Gravels; medium to coarse, subangular to angular. Cobbles; up to 150mm, subangular to angular. (Alluvial Fan)	-1.3									
		1.5		2							
TZ3											
	Bouldery CLAY; dark grayish green. Saturated, hard, low plasticity. Boulders up to 250mm, angular.	-2.2			S	H					
		2.5									

EOH: 2.50 m

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Refusal at 2.3m.
Groundwater at 2.3m.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016				DATE: 08/10/2024 TESTPIT DEPTH: 1.0m COORDINATES: East 1318478.0 North 5017971.0 GRID: NZTM 2000									
GEOLOGICAL UNIT		SOIL MATERIAL DESCRIPTION		DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
TS		Medium sandy TOPSOIL; dark brown. Moist, loose, non plastic.		0.0				VS				● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
Quaternary Deposits		Fine to coarse GRAVEL; minor fine sand, light grayish blue. Moist, loose, low plasticity. (Alluvial Fan)		0.2 -0.2			M	L					
		TOPSOIL; black. Moist, soft, moderate plasticity. (Paleosol)		0.6 -0.6				VS					
		GRAVEL with minor fine sand; dark brownish gray. Dry, loose, non plastic. (Alluvial Fan)		0.9 -0.9 1.0			D	L					
EOH: 1.00 m													
NOTES:										LOGGED: FS			
										CHECKED: PC			
										EXCAVATOR: 20T Excavator			



TESTPIT No.: MTP33
SHEET 1 OF 1
Job No.: 9702.0

DATE: 08/10/2024
TESTPIT DEPTH: 5.0m
COORDINATES: East 1319852.0 North 5017117.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / HEAD LOSS	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Organic SILT with minor sand; dark brownish brown. Moist, soft, low plasticity.	0.0		0.0	M	S					
	Fine to medium sandy GRAVEL, dark brownish green. Moist, soft, low plasticity. Gravel; fine, subangular. (Holocene Landslide Deposits)	-0.2		-0.2							
		Silty COBBLES with minor gravel; light gray. Dry, loose, non plastic. Gravel; fine to coarse, subangular. Cobbles; up to 150mm, subangular to angular. (Holocene Landslide Deposits)	-0.3		-0.3	D	L				
		1		1							
		2		2							
		3		3							
		4		4							
		4.8		4.8							
	GRAVEL with minor coarse sand; light gray. Dry, medium dense, non plastic. Gravel; fine to corase, subangular to angular. (Undifferentiated Quaternary landslide deposits)	-4.8		-4.8	MD						
		5.0		5.0							

LOGGED: FS
CHECKED: PC EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 08/10/2024 TESTPIT DEPTH: 3.0m COORDINATES: East 1319901.0 North 5016998.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT; dark brown. Moist, soft, low plasticity.	0.0			M						
Quaternary Deposits	GRAVEL with minor fine sand; light brown. Dry, loose, low plasticity. Gravel; fine to coarse, subangular. (Holocene Landslide Deposits)	0.2-0.2									
	GRAVEL; dark brownish cream. Dry, loose, low plasticity. Gravel; coarse, subangular to angular. (Holocene Landslide Deposits)	0.7-0.7		1	L						
	Fine sandy TOPSOIL, dark brown,. Dry, soft, low plasticity. (Paleosol)	1.2-1.2			D						
	Bouldery CLAY; dark gray. Dry, hard, moderate plasticity.	2.0-2.0		2	H						
TZ3		3.0									
EOH: 3.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Refusal at 3.0m. Groundwater not encountered. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator											



TESTPIT No.: MTP36
SHEET 1 OF 2
Job No.: 9702.0

DATE: 08/10/2024
TESTPIT DEPTH: 5.0m
COORDINATES: East 1319779.0 North 5017103.0
GRID: NZM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)			FIELD TESTS
										50	100	150	
TS	Organic SILT; dark bownish brown. Moist, soft, low plasticity.	0.0		0.0	M								
Quaternary Deposits	Clayey SILT with minor gravel; dark brown. Dry, soft. moderate plasticity. Gravel; medium, subangular. (Holocene Landslide Deposits)	0.2 -0.2		0.2									
				1.0	D	S							
				1.8									
	Bouldery fine sandy CLAY; light brownish gray. Moist, firm, low plasticity. (Alluvial Fan)	-1.8		2.0									
				3.0									
				3.1									
TZ3	Boulders with some clay; light creamy gray. Moist, dense, low plasticity	-3.1		3.1	M								
				4.4		D							

LOGGED: FS
CHECKED: PC EXCAVATOR: 20T Excavator



TESTPIT No.: MTP37
SHEET 1 OF 2
Job No.: 9702.0

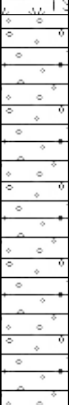
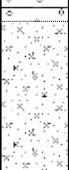
DATE: 08/10/2024
TESTPIT DEPTH: 5.0m
COORDINATES: East 1318345.0 North 5018273.0
GRID: NZTM 2000

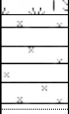
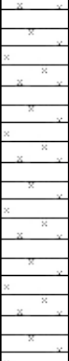
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	
TS	Organic SILT; light brownish brown. Moist, soft, low plasticity.	0.0			M	S					
Quaternary Deposits	Clayey Silt with minor gravel; light brown. Dry, firm, low plasticity. Gravels; fine to medium, subrounded to subangular. (Holocene Landslide Deposits)	0.3 -0.3			D						
	Silty CLAY with minor gravel; light brown. Moist, firm, low plasticity. Gravels; fine to medium, subrounded to subangular. (Holocene Landslide Deposits)	1.5 -1.5			F						
	BOULDERS with minor clay; light creamy gray. Moist, very stiff, low plasticity. Boulders; up to 250mm, angular, bladed. (Undifferentiated Quaternary landslide deposits)	1.9 -1.9		2	M						
	BOULDERS with minor clay; light creamy gray. Wet, hard, low plasticity. Boulders; up to 250mm, angular, bladed.	2.6 -2.7 2.8			W	H					
				3							
				4							

LOGGED: FS

CHECKED: PC EXCAVATOR: 20T Excavator

 Engineering Geology Ltd +64 9 486 2546 info@egl.co.nz Unit 7C, 331 Rosedale Road, Albany, Auckland PO Box 301054, Albany, Auckland 0752 www.egl.co.nz				TEST PIT LOG				TESTPIT No.: MTP37 SHEET 2 OF 2 Job No.: 9702.0			
PROJECT: BOGP Test Pits				DATE: 08/10/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 5.0m							
RL GROUND:				COORDINATES: East 1318345.0 North 5018273.0							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
EOH: 5.00 m											
NOTES: Logged by Matakanui staff, digitised by EGL staff. Refusal at 2.8m. Groundwater at 2.7m.											
LOGGED: FS CHECKED: PC								EXCAVATOR: 20T Excavator			

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 08/10/2024 TESTPIT DEPTH: 3.0m COORDINATES: East 1319594.0 North 5017241.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT; dark brownish brown, weakly plastic	0.0									
Quaternary Deposits	Gravelly CLAY with minor silt; light brownish gray. Moist, soft, moderate plasticity. Gravel; fine to coarse, subangular to angular. (Holocene Landslide Deposits)	0.7 -0.7		1	M	S					
	Coarse sandy SILT with minor clay; light brown. Wet, firm, moderate plasticity. (Holocene Landslide Deposits)	2.0 -2.0		2			W	F			
TZ3	BOULDERS with minor clay; light gray. Saturated, hard, low plasticity. Boulders; up to 250mm, angular, bladed.	2.5 -2.5					S	H			
		3.0									
EOH: 3.00 m											
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 3.0m. Groundwater not encountered.											
LOGGED: FS CHECKED: PC								EXCAVATOR: 20T Excavator			

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 08/10/2024 TESTPIT DEPTH: 2.4m COORDINATES: East 1319409.0 North 5017431.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
TS	Organic SILT; dark brownish black. Moist, soft, low plasticity.	0.0				S					
		0.7									
Quaternary Deposits	Silty CLAY with minor gravel; light gray. Moist, soft, low plasticity. Gravels; fine to medium, subrounded to subangular. (Holocene Landslide Deposits)	-0.7									
	Silty CLAY with minor gravel trace boulders; light gray. Moist, soft, low plasticity. Gravels; fine to medium, subrounded to subangular. Boulders; up to 300mm, subangular to angular. (Holocene Landslide Deposits)	1.0		1	M						
		-1.0				L					
				2							
		2.2									
TZ3	Coarse sandy Boulders; dark gray. Saturated, dense, low plasticity.	-2.2			W	D					
		2.4									
EOH: 2.40 m											
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Refusal at 2.4m. Groundwater at 2.3m.						LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator					



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TEST PIT
LOG

TESTPIT No.: MTP40
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 08/10/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1315509.0 North 5019447.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS	Organic SILT; dark brown. Moist, soft, low plasticity.	0.0 0.2 -0.2								50100150	
Quaternary Deposits	Clayey GRAVEL with minor silt; light brown. Moist, soft, low plasticity. Gravel; medium, subrounded to subangular. (Till)	1.0 -1.0		1	M	S					
	Fine to coarse sandy GRAVEL; light brown. Dry, medium dense, non plastic. Gravel; fine to medium, subangular. (Till)	2.0 -2.0		2		MD					
	Cobbly GRAVEL; with minor coarse sand; light whitly brown. Dry, dense, non plastic. Gravel; fine to coarse, subrounded to subangular. Cobbles; up to 150mm, subangular. (Till)	3.0 -3.0		3		D					
	Medium to coarse sandy COBBLES with minor gravel; light brown. Dry. dense, non plastic. Gravel; fine to coarse, subrounded to subangular. Cobbles; up to 150mm, subangular. (Till)	4.0 -4.0		4							
		5.0 -5.0		5		F					
		6.0 -6.0		6							
		7.0 -7.0									

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 7.0m.
Groundwater not encountered.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016				DATE: 08/10/2024 TESTPIT DEPTH: 7.0m COORDINATES: East 1315509.0 North 5019447.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ☒ Field Vane (BS 1377) ☐ Remoulded Field Vane 50 100 150	FIELD TESTS		
EOH: 7.00 m													
NOTES: Logged by Matakanui staff, digitised by EGL staff. Target depth at 7.0m. Groundwater not encountered.												LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator	



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TEST PIT
LOG

TESTPIT No.: MTP41
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATE: 08/10/2024
TESTPIT DEPTH: 7.5m
COORDINATES: East 1315509.0 North 5019488.0
DATUM: NZVD2016
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Organic SILT minor fine sand; dark brownish brown. Moist, soft, low plasticity.	0.0 0.2 -0.2			M	S			0.0		
	Silty GRAVEL; light brown. Dry, loose, non plastic. Gravel; medium, subrounded to subangular. (Till)			1		L					
	Medium sandy GRAVEL with minor clay; light brown, Dry, hard, low plasticity. Gravel; medium, subrounded to subangular. (Till)	1.5 -1.5		2		H					
	Medium sandy GRAVEL minor cobbles; light brown. Dry, medium dense, non plastic. Gravel; Coarse, subrounded to subangular. Cobbles; up to 180mm, subrounded to subangular. (Till)	3.5 -3.5		4		D					
				5							
				6		L					
				7							
				7.5							

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 7.5m.
Groundwater not encountered.

LOGGED: FS
CHECKED: PC
EXCAVATOR: 20T Excavator

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				SHEET 2 OF 2							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits				DATE: 08/10/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 7.5m							
RL GROUND:				COORDINATES: East 1315509.0 North 5019488.0							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane 50100150	
EOH: 7.50 m											
NOTES: Logged by Matakanui staff, digitised by EGL staff. Target depth at 7.5m. Groundwater not encountered.											
LOGGED: FS CHECKED: PC										EXCAVATOR: 20T Excavator	



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TEST PIT
LOG

TESTPIT No.: MTP42
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 08/10/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1315293.0 North 5019891.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										50100150	
TS	Organic SILT with minor fine to medium sand; dark brown. Moist, soft, low plasticity.	0.0 0.2 -0.2									
Quaternary Deposits	Medium sandy SILT with minor gravel; dark brown. Moist, loose, non plastic. Gravel; fine to medium, subangular to angular. (Till)				M	S					
	GRAVEL with minor medium sand; light brown. Dry, loose, non plastic. Gravel; fine to coarse, subrounded to subangular. (Till)	1.0 -1.0		1		L					
	Fine to coarse sandy GRAVEL with minor clay; light brownish white. Dry, hard, low plasticity. Gravel; fine to medium, subangular to angular. (Till)	1.5 -1.5		2		H					
	Medium sandy COBBLES with minor gravel; light brown. Dry, dense, non plastic. Gravel; Coarse, subrounded to subangular. Cobbles; up to 180mm, subrounded to subangular. (Till)	2.5 -2.5		3	D						
				4		D					

NOTES: Logged by Matakanui staff, digitised by EGL staff.
Target depth at 7.0m.
Groundwater not encountered.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016		DATE: 08/10/2024 TESTPIT DEPTH: 7.0m COORDINATES: East 1315293.0 North 5019891.0 GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
Quaternary Deposits	Medium sandy COBBLES with minor gravel; light brown. Dry, dense, non plastic. Gravel; Coarse, subrounded to subangular. Cobbles; up to 180mm, subrounded to subangular. (Till)			6	D	D					
				7.0							
EOH: 7.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Target depth at 7.0m. Groundwater not encountered. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator											



TESTPIT No.: MTP43
SHEET 1 OF 2
Job No.: 9702.0

DATE: 08/10/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1315234.0 North 5019984.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / FIELD WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)			FIELD TESTS
										50	100	150	
Quaternary Deposits	Organic SILT with minor fine sand; dark brown. Moist, soft, low plasticity.	0.0		0.0	M	S							
	SILT with minor sand and gravel and trace clay; dark brown. Dry, firm, low plasticity. Gravel; fine to medium, subangular. (Till)	0.2 -0.2		1	D								
	Medium sandy GRAVEL with minor clay. brownish white. Moist, firm, low plasticity. Gravel; fine to coarse, subrounded. (Till)	1.5 -1.5		2		F							
	Medium sandy GRAVEL with minor cobbles; Light yellowish brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)d.	3.5 -3.5		3	M								
				4	D	L							

LOGGED: FS
CHECKED: PC EXCAVATOR: 20T Excavator

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				SHEET 2 OF 2							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits				DATE: 08/10/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 6.0m							
RL GROUND:				COORDINATES: East 1315234.0 North 5019984.0							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
Quaternary Deposits	Medium sandy GRAVEL with minor cobbles; Light yellowish brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounde (Till)d.	6.0			D	L					
EOH: 6.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Target depth at 6.0m. Groundwater not encountered. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator											



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TEST PIT LOG

TESTPIT No.: MTP44
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016

DATE: 08/10/2024
TESTPIT DEPTH: 7.0m
COORDINATES: East 1315206.0 North 5019965.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
TS	Organic SILT with minor fine sand; dark brown. Moist, soft, low plasticity.	0.0 0.2 -0.2				S					
Quaternary Deposits	fine to coarse sandy GRAVEL; dark brown. Moist, loose, non plastic. Gravel; fine to medium, subrounded. (Till)			1		L					
					M						
	GRAVEL with minor clay; light brownish white. Moist, stiff, low plasticity. Gravel; fine to medium, rounded to subrounded. (Till)	2.0 -2.0		2		St					
	Medium sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)	3.0 -3.0		3							
				4	D	L					

NOTES: Logged by Matakanui staff, digitised by EGL staff.
Target depth at 7.0m.
Groundwater not encountered.

LOGGED: FS

CHECKED: PC

EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations RL GROUND: DATUM: NZVD2016				DATE: 08/10/2024 TESTPIT DEPTH: 7.0m COORDINATES: East 1315206.0 North 5019965.0 GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
Quaternary Deposits	Medium sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)			6	D	L					
EOH: 7.00 m											
NOTES: Logged by Matakau staff, digitised by EGL staff. Target depth at 7.0m. Groundwater not encountered. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator											



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TEST PIT
LOG

TESTPIT No.: MTP45
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016
DATE: 08/10/2024
TESTPIT DEPTH: 6.0m
COORDINATES: East 1315045.0 North 5020491.0
GRID: NZTM 2000

GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa)	FIELD TESTS
										● Field Vane (BS 1377) ○ Remoulded Field Vane	
		50100150									
TS	Organic SILT with minor fine sand; dark brown. Moist, soft, low plasticity.	0.0 0.2 -0.2			M	S					
Quaternary Deposits	Fine to coarse sandy GRAVEL; dark brown. Dry loose, non plastic. Gravel; fine to medium, subrounded. (Till)			1		L					
				2							
	Coarse sandy GRAVEL with minor clay; light brown. Dry, firm, low plasticity. Gravel; fine to medium, subrounded. (Till)	2.8 -2.8		3		F					
	Medium to coarse sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)	4.0 -4.0		4		L					

NOTES: Logged by Matakanaui staff, digitised by EGL staff.
Target depth at 6.0m.
Groundwater not encountered.
LOGGED: FS
CHECKED: PC
EXCAVATOR: 20T Excavator

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PROJECT: BOGP Test Pits		DATE: 08/10/2024									
LOCATION: Bendigo Ophir Stations		TESTPIT DEPTH: 6.0m									
RL GROUND:		COORDINATES: East 1315045.0 North 5020491.0									
DATUM: NZVD2016		GRID: NZTM 2000									
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
Quaternary Deposits	Medium to coarse sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)	6.0			D	L					
EOH: 6.00 m											
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Target depth at 6.0m. Groundwater not encountered. LOGGED: FS CHECKED: PC EXCAVATOR: 20T Excavator											



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TEST PIT
LOG

TESTPIT No.: MTP46
SHEET 1 OF 2
Job No.: 9702.0

PROJECT: BOGP Test Pits
LOCATION: Bendigo Ophir Stations
RL GROUND:
DATUM: NZVD2016
DATE: 08/10/2024
TESTPIT DEPTH: 6.5m
COORDINATES: East 1315063.0 North 5020510.0
GRID: NZTM 2000

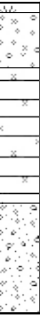
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane	FIELD TESTS
Quaternary Deposits	Organic SILT with minor fine sand; dark brown. Moist, soft, low plasticity.	0.0 0.2 -0.2				S					
	Silty GRAVEL with minor fine sand; dark brown. Moist, loose, low plasticity. Gravel; fine, subrounded. (Till)					M					
	Fine to medium sandy GRAVEL; light brown. Dry, loose, non plastic. Gravel; fine, subrounded. (Till)	1.0 -1.0		1		L					
	Fine to coarse sandy GRAVEL with minor clay; light brown. Moist, firm, low plasticity. Gravels; fine to medium, subrounded to subangular. (Till)	1.8 -1.8				M	F				
	Fine to coarse sandy GRAVEL; light brown. Dry, loose, non plastic. Gravels; fine to coarse, subrounded. (Till)	2.0 -2.0		2							
	Medium to coarse sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)	2.5 -2.5									
				3							
						D	L				
				4							

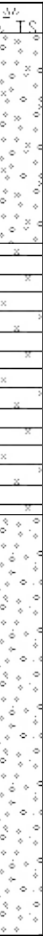
NOTES: Logged by Matakanui staff, digitised by EGL staff.
Target depth at 6.5m.
Groundwater not encountered.

LOGGED:
CHECKED: EXCAVATOR: 20T Excavator

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				SHEET 2 OF 2							
				Job No.: 9702.0							
PROJECT: BOGP Test Pits				DATE: 08/10/2024							
LOCATION: Bendigo Ophir Stations				TESTPIT DEPTH: 6.5m							
RL GROUND:				COORDINATES: East 1315063.0 North 5020510.0							
DATUM: NZVD2016				GRID: NZTM 2000							
GEOLOGICAL UNIT	SOIL MATERIAL DESCRIPTION	DEPTH / RL	GRAPHIC LOG	DEPTH (m)	MOISTURE CONDITION	CONSISTENCY / DENSITY	SAMPLES	WATER CONTENT (%)	SEEPAGE / WATER LEVEL	CORRECTED VANE SHEAR STRENGTH (kPa) ● Field Vane (BS 1377) ○ Remoulded Field Vane 50 100 150	FIELD TESTS
Quaternary Deposits	Medium to coarse sandy GRAVEL with minor cobbles; light brown. Dry loose, non plastic. Gravel; Coarse, rounded to subrounded. Cobbles; up to 150mm, subrounded. (Till)	6.5		6	D	L					
EOH: 6.50 m											
NOTES: Logged by Matakanaui staff, digitised by EGL staff. Target depth at 6.5m. Groundwater not encountered. LOGGED: CHECKED: EXCAVATOR: 20T Excavator											

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: NZTM 2000 GRID: NZTM 2000			RL GROUND: DATUM:		HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 2.8m INCLINATION: Vertical ORIENTATION:											
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TS	Organic Clayey SILT; black. Loose, dry, low plasticity.	0.0	0.0	TS												
		0.5	-0.5	TS												
	Silty GRAVEL; brown. Loose, dry, low plasticity.															
1		1														
		2														
	Silty GRAVEL, with schist fragments; brown. Very stiff, dry, low plasticity.	2.3	-2.3													
		2.8														
EOH: 2.80 m																
NOTES:																
LOGGED:						DRILLER:										
CHECKED:						DRILL TYPE:										

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:			RL GROUND: DATUM:			HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 3.1m INCLINATION: Vertical ORIENTATION:										
Core Description			Rock Defects			Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; black. Loose, low plasticity.	0.0	-0.1											Groundwater Not Encountered		
	Silty GRAVEL; brown. Loose, dry, low plasticity.	0.7	-0.7													
	Silty CLAY; brown. Very stiff, moist, moderate plasticity.	2.0	-2.0													
	Sandy GRAVEL; grey. Very stiff, moist, low plasticity.	3.1	-3.1													
EOH: 3.10 m																
NOTES:						LOGGED:		DRILLER:								
						CHECKED:		DRILL TYPE:								

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: NZTM 2000 GRID: NZTM 2000			RL GROUND: DATUM:			HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 3.1m INCLINATION: Vertical ORIENTATION:											
Core Description			Rock Defects			Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS	
TS	Organic Clayey SILT; black, dry, low plasticity.	0.0	0.7														
	Silty GRAVEL; brown. Loose, dry, low plasticity.	-0.1															
	Silty CLAY; brown. Very stiff, dry, moderate plasticity.	0.8	-0.8														
	Sandy GRAVEL; grey. Very stiff, moist, low plasticity.	1.7	-1.7														
1		2															
		3															
		3.1															
EOH: 3.10 m																	
NOTES:					LOGGED:		DRILLER:										
					CHECKED:		DRILL TYPE:										

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:				RL GROUND: DATUM:				HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 4.1m INCLINATION: Vertical ORIENTATION:								
Core Description				Rock Defects				Drilling & Testing								
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; black. Loose, moist, low plasticity. Silty Gravel; brown. Very stiff, moist, low plasticity.	0.0 -0.1 1 2 3 4 4.1												Groundwater Not Encountered		
EOH: 4.12 m																
NOTES:						LOGGED:		DRILLER:								
						CHECKED:		DRILL TYPE:								

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:			RL GROUND: DATUM:			HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 6.9m INCLINATION: Vertical ORIENTATION:										
Core Description			Rock Defects			Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; dark brown. Very stiff, dry, low plasticity.	0.0	-0.1											Groundwater Not Encountered		
	Silty GRAVEL; brown. Very stiff, moist, low plasticity.	1														
		Sandy GRAVEL; grey. Very stiff, moist, low plasticity.	2.0													
EOH: 6.90 m																
NOTES:					LOGGED:		DRILLER:									
					CHECKED:		DRILL TYPE:									

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:		RL GROUND: DATUM:		HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 3.2m INCLINATION: Vertical ORIENTATION:												
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; dark brown. Very stiff, dry, low plasticity.	0.0	0.0											Groundwater Not Encountered		
	Sandy GRAVEL; grey. Very stiff, moist, low plasticity.	0.7	-0.2													
	Silty SAND; brown. Very stiff, moist, low plasticity.	0.8	-0.8													
	Silty GRAVEL; grey. Very stiff, moist, low plasticity.	1.9	-1.9													
	Silty CLAY; brown. Very stiff, moist, moderate plasticity.	2.9	-2.9													
Silty SAND; brown. Very stiff, moist, low plasticity.	3.2	-3.2														
EOH: 3.20 m																
NOTES:						LOGGED:		DRILLER:								
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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:			RL GROUND: DATUM:			HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 3.8m INCLINATION: Vertical ORIENTATION:										
Core Description			Rock Defects			Drilling & Testing										
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
TS	Organic Clayey SILT; black. Loose, moist, low plasticity.	0.0	0.4	TS												
1	Silty GRAVEL; brown. Loose, dry, low plasticity.	0.4	-0.4													
		1														
	Clayey SILT; brown. Very stiff, dry, moderate plasticity.	1.8	-1.8													
		2														
	Sandy GRAVEL; grey. Loose, dry, low plasticity.	3.0	-3.0													
		3														
		3.8														
EOH: 3.80 m																
NOTES:						LOGGED:		DRILLER:								
						CHECKED:		DRILL TYPE:								

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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:		RL GROUND: DATUM:		HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 3.6m INCLINATION: Vertical ORIENTATION:												
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; black. Loose, dry, low plasticity.	0.0	-0.2													
	Silty GRAVEL; brown. Loose, dry, low plasticity.	0.6	-0.6													
	Clayey SILT; brown. Loose, dry, low plasticity.	1.1	-1.1													
	Silty CLAY; brown. Very stiff, moist, moderate plasticity.	1.3	-1.3													
	Gravelly SILT; brown. Very stiff, moist, low plasticity.	1.4	-1.4													
	Silty CLAY; brown. Very stiff, dry, moderate plasticity.	2.2	-2.2													
	Sandy GRAVEL; grey. Very stiff, dry, low plasticity.	2.2	-2.2													
		3.6	-3.6													
EOH: 3.60 m																
NOTES:						LOGGED:		DRILLER:								
						CHECKED:		DRILL TYPE:								

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PROJECT: BOGP Test Pits		RL GROUND:		HOLE STARTED:												
LOCATION: Bendigo Ophir Stations		DATUM:		HOLE FINISHED:												
COORDINATES:				HOLE DEPTH: 3.5m												
GRID:				INCLINATION: Vertical												
				ORIENTATION:												
Core Description				Rock Defects			Drilling & Testing									
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; black. Loose, dry, low plasticity.	0.0	-0.2											Groundwater Not Encountered		
	Gravelly SILT; brown. Loose, dry, low plasticity.	0.9	-0.9													
	Sandy GRAVEL; brown. Very stiff, dry, low plasticity.	1.6	-1.6													
	Clayey SILT; brownish orange. Very stiff, dry, low plasticity.	2.5	-2.5													
	Sandy SILT; grey. Very stiff, dry, low plasticity.	3.5	-3.5													
EOH: 3.50 m																
NOTES:						LOGGED:		DRILLER:								
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PROJECT: BOGP Test Pits LOCATION: Bendigo Ophir Stations COORDINATES: GRID:		RL GROUND: DATUM:		HOLE STARTED: HOLE FINISHED: HOLE DEPTH: 4.2m INCLINATION: Vertical ORIENTATION:												
Core Description			Rock Defects		Drilling & Testing											
GEOLOGICAL UNIT	ROCK / SOIL MATERIAL DESCRIPTION	DEPTH (m)	DEPTH RL	GRAPHIC LOG	DEFECT DESCRIPTION & ADDITIONAL NOTES	FRACTURE FREQUENCY	WEATHERING	ROCK STRENGTH	PT LOAD / UCS (MPa)	CORE LOSS (%)	CORE LENGTH / TYPE	RQD (%)	SAMPLES	WATER LEVEL	WATER LOSS (%)	FIELD TESTS
1	Organic Clayey SILT; black. Loose, low plasticity. Gravelly SAND; brown. Very stiff, moist, low plasticity.	0.9 -0.2 1 2 3 4 4.2												Groundwater Not Encountered		
EOH: 4.20 m																
NOTES:						LOGGED:		DRILLER:								
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TESTPIT No: MTP001

Photographed by: F. Schmit



Testpit at completion. Max depth 6m



Spoil pile at end of excavation



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TESTPIT No: MTP002

Photographed by: F. Schmit



Testpit at completion. Max depth 6m



Spoil pile at end of excavation



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TESTPIT No: MTP003

Photographed by: F. Schmit



Testpit at completion. Max depth 4m



Spoil pile at end of excavation



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TESTPIT No: MTP004

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Testpit at completion. Max depth 4.1m



Spoil pile at end of excavation



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TESTPIT No: MTP005

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Testpit at completion. Max depth 7m



Spoil pile at end of excavation



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TESTPIT No: MTP006

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Testpit at completion. Max depth 7m



Spoil pile at end of excavation



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TESTPIT No: MTP007

Photographed by: F. Schmit



Testpit at completion. Max depth 6m



Spoil pile at end of excavation



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TESTPIT No: MTP008

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Testpit at completion. Max depth 5m



Spoil pile at end of excavation



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TESTPIT No: MTP009

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Testpit at completion. Max depth 7m



Spoil pile at end of excavation



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TESTPIT No: MTP010

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Testpit at completion. Max depth 7m



Spoil pile at end of excavation



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TESTPIT No: MTP011

Photographed by: F. Schmit



Testpit at completion. Max depth 5m



Spoil pile at end of excavation



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TESTPIT No: MTP012

Photographed by: F. Schmit



Testpit at completion. Max depth 6m



Spoil pile at end of excavation



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TESTPIT No: MTP013

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Testpit at completion. Max depth 6.5m



Spoil pile at end of excavation



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TESTPIT No: MTP014

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Testpit at completion. Max depth 6.5m



Spoil pile at end of excavation



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Testpit at completion. Max depth 4.5m



Spoil pile at end of excavation



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TESTPIT No: MTP016

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Testpit at completion. Max depth 6.5m



Spoil pile at end of excavation



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TESTPIT No: MTP017

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Testpit at completion. Max depth 1m



Spoil pile at end of excavation



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TESTPIT No: MTP018

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Testpit at completion. Max depth 6.5m



Spoil pile at end of excavation



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Testpit at completion. Max depth 2.5m



Spoil pile at end of excavation



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TESTPIT No: MTP020

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Testpit at completion. Max depth 5.5m



Spoil pile at end of excavation



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TESTPIT No: MTP021

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Testpit at completion. Max depth 2.5m



Spoil pile at end of excavation



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TESTPIT No: MTP022

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Testpit at completion. Max depth 5.5m



Spoil pile at end of excavation



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TESTPIT No: MTP023

Photographed by: F. Schmit



Testpit at completion. Max depth 6m



Spoil pile at end of excavation



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Date:

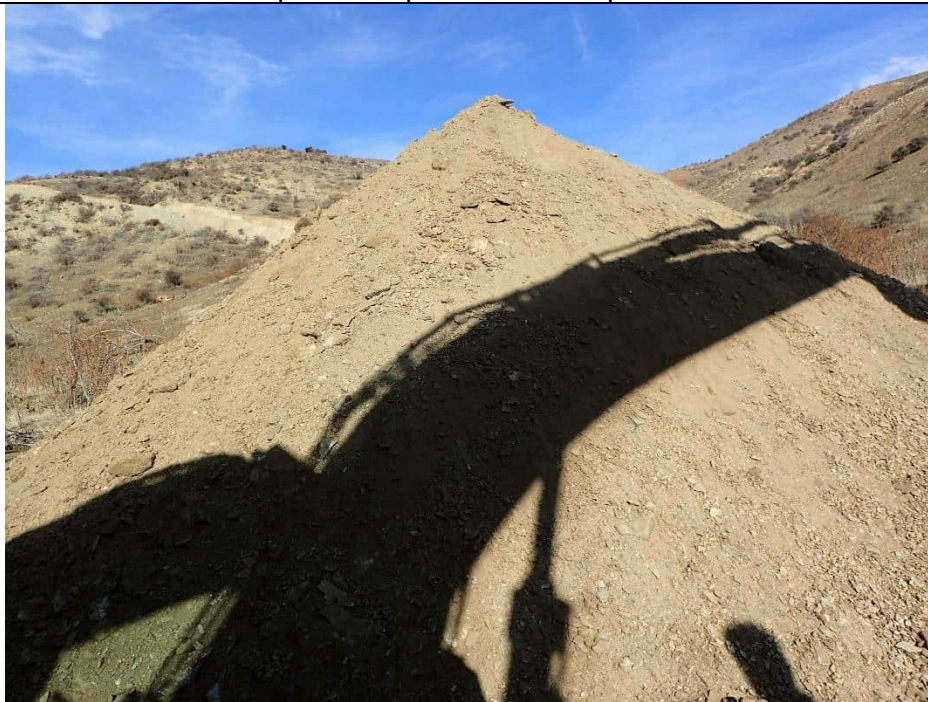
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TESTPIT No: MTP024

Photographed by: F. Schmit



Testpit at completion. Max depth 7.5m



Spoil pile at end of excavation



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TESTPIT No: MTP025

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Testpit at completion. Max depth 4.5m



Spoil pile at end of excavation



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TESTPIT No: MTP026

Photographed by: F. Schmit



Testpit at completion. Max depth 3.5m



Spoil pile at end of excavation



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TESTPIT No: MTP027

Photographed by: F. Schmit



Testpit at completion. Max depth 3m



Spoil pile at end of excavation



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TESTPIT No: MTP028

Photographed by: F. Schmit



Testpit at completion. Max depth 2m



Spoil pile at end of excavation



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TESTPIT No: MTP029

Photographed by: F. Schmit



Testpit at completion. Max depth 3m



Spoil pile at end of excavation



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TESTPIT No: MTP030

Photographed by: F. Schmit



Testpit at completion. Max depth 4m



Spoil pile at end of excavation