BOREHOLE LOG

BOREHOLE No.: BH11

SHEET: 1 OF 3

Tonkin+Taylor

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: St Jean D'arc School

CO-ORDINATES: 168.31679900° (WGS84)
-17.73494100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 51.10m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 19/01/2026
FINISH DATE: 21/01/2026
CONTRACTOR: Vanuatu Drilling

GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering	Rock Strength	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%)	Casing	Installation	Core Box No
Fill	*0.00m:* SILT, trace gravel; dark brown. Soft to firm, moist; gravel, fine, up to 4mm, limestone. [FILL]												*0.00 - 0.40m:* Atterberg Limits - LL = 82, PL = 39, and PI = 43 Allophane content - 5 - 7%				
Reef Limestone Formation	*0.43m:* Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand, minor silt; brownish white. Tightly packed, dry, poorly graded. Gravel, sub-angular, limestone. [REEF LIMESTONE FORMATION]			HQTT	61		51	0									
	0.92m: CORE LOSS - Suspect washed out.																
	1.50m: Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, some silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone.			SPT	100	5/15// 9/6/8/6 **N=29**	50	1									
	1.95m: CORE LOSS - Suspect washed out.			HQTT	10		49	2									
	2.90m: Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone and shell fragments.			SPT	82	14/14// 10/4/ 4/10 **N=28**	48	3									
	3.45m: CORE LOSS - Suspect washed out.			HQTT	24		47	4									
	4.25m: Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, trace silt; brownish white. Medium dense, dry, well graded. Gravel, sub-angular, limestone and shell fragments.			SPT	71	3/2// 4/3/2/3 **N=12**	46	5									
	4.95m: CORE LOSS - Suspect washed out.																
	5.10m: Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; brownish white. Very dense, dry, well graded. Gravel, limestone and shell fragments.			HQTT	86		45	6									Box 0.00-6.00m
				SPT	89	10/4// 11/19/18/20 **N>=50**											
	6.45m: CORE LOSS - Suspect washed out.			HQTT	12		44	7									
	7.37m: Moderately weathered, brownish white, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL; brownish white. Dense, dry, poorly graded. Gravel, sub-angular, limestone.			SPT	89	6/5// 11/8/ 14/8 **N=41**	43	8						DRY 19/01/2026			
	7.95m: CORE LOSS - Suspect washed out.			HQTT	38												
	8.60m: Moderately weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand, minor silt; light brown. Medium dense, dry, well graded. Gravel, sub-angular, limestone.			SPT	78	6/4// 5/6/7/5 **N=23**	42	9									
	9.45m: CORE LOSS - Suspect washed out.			HQTT	76												
	9.70m: Moderately weathered, light brown, LIMESTONE.																

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

Hole Depth 23.2m

Scale 1:50

Rev.: A

TTNZ_20251211 - GeneralLog - 6/05/2026 10:43:33 am - Produced with Core-GS by GeRoc

BOREHOLE LOG

Tonkin+Taylor

BOREHOLE No.: BH11

SHEET: 2 OF 3

PROJECT: EEETA
JOB No.: 1097984.1000.2000
LOCATION: St Jean D'arc School

CO-ORDINATES: 168.31679900° (WGS84)
-17.73494100°
DIRECTION: 180°
ANGLE FROM HORIZ.: -90°

R.L. GROUND: 51.10m
R.L. COLLAR:
DATUM: ELLIPSOID
SURVEY: Map or aerial photograph

DRILLED BY: Jono
LOGGED BY: REOL
CHECKED: CRB
START DATE: 19/01/2026
FINISH DATE: 21/01/2026
CONTRACTOR: Vanuatu Drilling

GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering	Rock Strength	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%)	Casing	Installation	Core Box No
Reef Limestone Formation	Extremely weak, poorly cemented, coarse grained. Recovered as: sandy fine to coarse GRAVEL, minor silt; light brown. Medium dense, dry, poorly graded. Gravel, sub-angular, limestone.			HQTT	76		41										
				SPT	67	7,5// 6,5/4/3 N=18											
	10.95m: CORE LOSS - Suspect washed out.						40	11									
	11.05m: Moderately weathered, light brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained.			HQTT	90	BH11_UCS @ 11.65m							*11.65 - 11.76m:* UCS - 3.8 MPa				Box 6.00-11.65m
				SPT	100	5,2// 2,4/3/2 N=11	39	12									
	12.45m: CORE LOSS - Suspect washed out.																
	12.70m: Moderately weathered, brownish white, LIMESTONE. Extremely weak to very weak, well cemented, coarse grained.			HQTT	76		38	13									
				SPT	89	6/10// 6/13,9/16 N=44											
	13.95m: CORE LOSS - Suspect washed out.						37	14									
	14.05m: Moderately weathered, brownish white, LIMESTONE. Very weak, well cemented, coarse grained.			HQTT	90												
				SPT	89	4,6// 17/28/24/13 N>=50	36	15									Box 11.65-15.45m
	15.45m: CORE LOSS - Suspect washed out.																
	15.70m: Moderately weathered, white and brown, LIMESTONE. Very weak, well cemented, coarse grained.			HQTT	76		35	16									
				SPT	8	12/14// 7/7/6/7 N=27											
	16.95m: CORE LOSS - Suspect washed out.						34	17									
	17.10m: Moderately weathered, light brown, LIMESTONE. Extremely weak, poorly cemented, coarse grained. Recovered as: fine to coarse GRAVEL, some sand; light brown. Loosely packed, moist, poorly graded. Gravel, angular, limestone.			HQTT	86												
	17.60m: Moderately weathered, brown and white, LIMESTONE. Very weak, poorly cemented, coarse grained.			SPT	78	7/12// 9/11/17/10 N=47	33	18									
	18.45m: CORE LOSS - Suspect washed out.																
	18.70m: Moderately weathered, brown and white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	76		32	19									
	19.50m: CORE LOSS - Suspect washed out.			HQTT	100												Box 15.45-20.00m

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

Hole Depth 23.2m

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BOREHOLE LOG

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BOREHOLE No.: BH11

SHEET: 3 OF 3

PROJECT: EEETA	CO-ORDINATES: 168.31679900° (WGS84) -17.73494100°	R.L. GROUND: 51.10m
JOB No.: 1097984.1000.2000		R.L. COLLAR:
LOCATION: St Jean D'arc School	DIRECTION: 180°	DATUM: ELLIPSOID
	ANGLE FROM HORIZ.: -90°	SURVEY: Map or aerial photograph

DRILLED BY: Jono
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START DATE: 19/01/2026
FINISH DATE: 21/01/2026
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GEOLOGICAL UNIT	MATERIAL DESCRIPTION (SOIL: Classification, colour, consistency / density, moisture, plasticity; ROCK: Weathering, colour, fabric, name, strength, cementation)	Rock Weathering	Rock Strength	Sampling Method	Core Recovery (%)	Testing	RL (m)	Depth (m)	Graphic Log	ROCK MASS DISCONTINUITIES: Defect Log	Fracture Spacing (mm)	RQD (%)	Description & Additional Observations	Water Level / Fluid Loss (%)	Casing	Installation	Core Box No
Reef Limestone Formation	*19.95m:* Moderately weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	40		31						*20.00m:* 20/01/26. Vibrating due to no circulation. Rods pulled. 300 L of grout back to 13 m bgl.	DRY 21/01/2026			Box 20.00-23.20m
	20.40m: CORE LOSS - Suspect washed out, loose limestone gravels.						30	21									
	21.85m: Moderately weathered, white stained brown, LIMESTONE. Extremely weak to very weak, poorly cemented, coarse grained.			HQTT	43		29	22									
	22.50m: CORE LOSS - Suspect washed out.																
	22.70m: Slightly weathered, brownish white, LIMESTONE. Very weak, poorly cemented, coarse grained.			HQTT	71		28	23									
	23.2m: Danger of damaging machine						27	24					*23.20m:* 21/01/26. Lost circulation. Bit getting stuck. Rods pulled and hole terminated.				
							26	25									
							25	26									
							24	27									
							23	28									
							22	29									

COMMENTS: Losing circulation, drill bit getting stuck. Hole terminated. No groundwater encountered

Hole Depth 23.2m

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CORE PHOTOS

BOREHOLE No.: **BH11**

Hole Location: St Jean D'arc School

PROJECT: EEETA	LOCATION: Port Vila	JOB No.: 1097984.1000.2000
CO-ORDINATES: 168.316799 (WGS84) -17.734940999999996 R.L.: 51.10m DATUM: ELLIPSOID	DRILL TYPE: Trailer rig METHOD: Rotary cored	HOLE STARTED: 19/01/2026 HOLE FINISHED: 21/01/2026 DRILLED BY: Vanuatu Drilling LOGGED BY: REOL CHECKED: CRB



0.00-6.00m



6.00-11.65m

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CORE PHOTOS

BOREHOLE No.: **BH11**

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PROJECT: EEETA	LOCATION: Port Vila	JOB No.: 1097984.1000.2000
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11.65-15.45m



15.45-20.00m

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CORE PHOTOS

BOREHOLE No.: **BH11**

Hole Location: St Jean D'arc School

PROJECT: EEETA	LOCATION: Port Vila	JOB No.: 1097984.1000.2000
CO-ORDINATES: 168.316799 (WGS84) -17.734940999999996 R.L.: 51.10m DATUM: ELLIPSOID	DRILL TYPE: Trailer rig METHOD: Rotary cored	HOLE STARTED: 19/01/2026 HOLE FINISHED: 21/01/2026 DRILLED BY: Vanuatu Drilling LOGGED BY: REOL CHECKED: CRB



20.00-23.20m

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