

# CHILKOOT GEOLOGICAL ENGINEERS LTD.

5B Bennett Road, Whitehorse, Yukon  
(867) 335-5804    chilkoot@northwestel.net



## BOREHOLE LOG

Client : Deslin Development Corporation Location : Sawmill Land Treatment Facility Project : Hydrological Assessment - Additional Well Installation Chilkoot Project No. : 200-002-15	Date Drilled: Oct.7-8, 2015 Elevation : 100.40 meters Depth of BH: 14.94 meters Instrumentation: Well to 87.12 m
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**BOREHOLE**

**1-15**

Sheet 1 of 3

Elev. (m)	Depth		Stratigraphic Description	Field Sample					Laboratory Results (%)				USCS/NRC Depth (m)	Symbol	Elev. (m)
	ft	m		Type	Number	Temperature (degrees C)	Recovery %	Penetration (kg/cm <sup>2</sup> )	SPT 'N'	PL	MC	LL			
100.8	0.20	0.20	loose Sawdust and Rotting Timber												100.4
	1.0	1.0	firm FILL SILTY SAND to SANDY SILT - non-plastic, grey	⊗	1	NA	NA	NA	NA						100.2
	2.0	0.5								17.6					100.0
99.5	3.0	1.0	- as above	⊗	2	NA	NA	NA	1.75-2.25						99.4
	4.0	1.0								14.4					99.0
99.0	5.0	1.5													98.57
98.5	6.0	2.0	firm hard grindy drilling	⊗	3	NA	NA	NA	0.75						98.5
	7.0	2.0								11.9					98.2
98.0	8.0	2.44	loose Refusal in initial borehole advanced @ 2.2 m. Borehole relocated 1.5 meters east.	⊗	4	NA	NA	NA	NA						98.0
	9.0	2.5								6.4					97.5
97.5	10.0	3.0	compact GLACIOFLUVIAL DEPOSITS SAND with odd SILT clump in size to 4 mm - medium grained, poorly graded - brown	⊗	5	NA	NA	NA	NA						97.0
	11.0	3.5								4.2					96.6
96.5	13.0	4.0	compact GRAVELLY SAND - gravel in size to 30 mm, medium grained, poorly graded - brown	⊗	6	NA	NA	NA	NA						96.5
	14.0	4.0								4.1					96.0
96.0	15.0	4.5	compact SILTY SAND trace GRAVEL with odd SILT clump in size to 4 mm, gravel in size to 5 mm, fine to medium grained, poorly graded - brown	⊗	7	NA	NA	NA	NA						95.7
	16.0	5.0								6.6					95.5
95.5	17.0	5.0	loose - as above	⊗	8	NA	NA	NA	NA						95.1
	18.0	5.5								17.4					95.0
95.0	19.0	5.79	stiff TILL - GRAVELLY SILTY SAND - fine to medium grained, poorly graded, grey - traces of orange-brown oxidation streaks to 10.3 m	⊗	9	NA	NA	>4.5	NA						94.61
	20.0	6.0								8.2					94.5
94.5	21.0	6.5													94.0
94.0	22.0	7.0								7.1					93.5

Drilled By : Donjek Drilling      Auger Type : 150 mm Solid Stem  
Drill Type : CME 750 (FN60)      Bit Type : Fish Tail

Water Level(s) ▽ During Drilling    ▽ After Drilling ▽ At End of Drilling	Logged By : T.Dhara, P.Eng. Date : Oct.7-8, 2015	Data Entry By : T.Dhara, P.Eng. Date : Nov.24-25, 2015	Reviewed By: Date : Nov.26, 2015
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Sheet 2 of 3

Elev. (m)	Depth		Stratigraphic Description	Field Sample						Laboratory Results (%)				USCS/NRC Depth (m)	Symbol	Elev. (m)
	ft	m		Type	Number	Temperature (degrees C)	Recovery %	Penetration (kg/cm <sup>2</sup> )	SFT/M	PL	FL	LL	USCS/NRC			
93.0	24.0	7.5	hard SANDY SILTY GRAVEL - fine to medium grained, poorly graded - grey - possible cobble to boulder sized materials	damp	X	10	NA	NA	>4.5	NA	5.6	14.2	37.1	48.6	GM	93.0
92.5	26.0	8.0	hard GRAVELLY SILTY SAND - fine to medium grained, poorly graded, grey	damp	X	11	NA	NA	NA	NA	6.6					92.5
92.0	27.0	8.5	- as above		X	12	NA	NA	NA	NA	7.1					91.8
91.5	29.0	9.0			X	13	NA	NA	NA	NA	5.9					91.5
91.0	31.0	9.5	- 15 cm of groundwater noted in borehole morning of Oct.8		X	14	NA	NA	NA	NA	5.5	18.8	22.6			90.8
90.5	32.0	10.0	- as above		X	15	NA	NA	NA	NA	8.2					90.5
90.0	33.0	10.5	- Borehole collapsed to 9.6 m upon auger withdrawal from 10.67 m	damp	X	16	NA	NA	NA	NA	9.9					90.04
89.5	34.0	10.5	- as above		X	17	NA	NA	NA	NA	3.2	15.5	19.0			90.0
89.0	35.0	11.0	- as above but possible trace of CLAY		X											89.5
88.5	36.0	11.5	- easier drilling	moist	X											89.12
88.0	37.0	11.5	- as above		X											89.0
87.5	38.0	11.5			X											88.7
87.0	39.0	12.0			X											88.5
86.5	40.0	12.5			X											88.0
86.0	41.0	12.5			X											87.5
85.5	42.0	12.90	loose SILTY SAND - fine to medium grained, poorly graded - grey	moist to wet	X											87.3
	43.0	13.0	- 2" diameter well installed to 13.28 m		X											87.12
	44.0	13.5	- Borehole collapsed to 13.38 m		X											87.02
	45.0	14.00			X											87.0
	45.0	14.90			X											86.5

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Drill Type : CME 750 (FN60)

Auger Type : 150 mm Solid Stem  
Bit Type : Fish Tail

Caved To 13.38

#### Water Level(s)

During Drilling After Drilling  
At End of Drilling

Logged By : T.Dhara, P.Eng.

Data Entry By : T.Dhara, P.Eng.

Reviewed By:

Date : Oct.7-8, 2015

Date : Nov.24-25, 2015

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	ft	m		Type	Number	Temperature (degrees C)	Recovery %	Penetration (kg/cm <sup>2</sup> )	SPT 'N'	▲ - FINES	● - SAND	■ - GRAVEL	PL				MC	LL	
			loose									20	40	60	80				
86.0	47.0		- grindy drilling - possible cobbles and/or boulders															86.1	
		14.5																	86.0
85.5	49.0	14.94	End of Borehole Borehole terminated at 14.94 m. below the existing ground surface.															86.46	
85.0																			85.0
84.5																			84.5
84.0																			84.0
83.5																			83.5
83.0																			83.0
82.5																			82.5
82.0																			82.0
81.5																			81.5
81.0																			81.0
80.5																			80.5
80.0																			80.0
79.5																		79.5	

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