

ISSUED FOR USE

NOTES

- 1) Well screen manufactured by Johnson
- 2) See TH1-08 (Well 9) and TH2-08a, TH2-08b (Well 8) in Appendix A for well lithology and grain size analysis depths
- 3) Grain size analysis results included in Appendix B

CLIENT



2008 Groundwater Exploration and Development Program, Whitehorse, Yukon


WELL 8 AND 9 CONSTRUCTION DETAILS



PROJECT NO W23101152.003	DWN LM	CKD KSJ	REV 1
OFFICE EBA-KELOWNA	DATE January 8, 2009		

Figure 4

C:\Kobornal\Drilling\W23101152\W23101152\W23101152.dwg [FIGURE 4] February 09, 2009 - 2:29pm

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.										
see Figure 2 for borehole location		Equipment: Superdrill 150 RDU Sonic Drill		W23101152.001 - TH2-08(a)										
ELEVATION: 645m		SAMPLE TYPE <input type="checkbox"/> DISTURBED <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPT <input type="checkbox"/> A-CASING <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> CORE												
BACKFILL TYPE <input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND														
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (RPA)	Elevation (m)
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)		
0	LOAM SAND, some silt			PT SW										645.0
1	NO CORE													644.0
2														643.0
3														642.0
4	SAND, some gravel, trace silt													641.0
4.5	Approximate water level on August 13, 2008													640.0
5														639.0
6														638.0
7														637.0
8				SW										636.0
9														635.0
10														634.0
11														633.0
12														632.0
13	GRAVEL, sandy, trace silt			GW										631.0
14	SAND, silty			SW										630.0
15	GRAVEL, some sand, trace silt SAND, some silt, trace gravel			GW										629.0
16														628.0
17														627.0
18														626.0
19				SW										626.0
 EBA Engineering Consultants Ltd.						LOGGED BY: [REDACTED]		COMPLETION DEPTH: 33.5m						
						REVIEWED BY: [REDACTED]		COMPLETE: 8/13/2008						
						DRAWING NO: TH2-08(a)		Page 1 of 2						

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.										
see Figure 2 for borehole location		Contractor: SDS Drilling		W23101152.001 - TH2-08(a)										
		Equipment: Superdrill 150 RDU Sonic Drill		ELEVATION: 645m										
SAMPLE TYPE		<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE							
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND							
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (RPA)	Elevation (m)
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)		
19							10	20	30	40				626.0
20	SAND and GRAVEL, trace silt													625.0
21	SAND, trace gravel, trace silt, coarsening upward sequence, silt content increases with depth		21.2											624.0
22														623.0
23	SAND and GRAVEL, trace silt		22.4											622.0
24				SP										621.0
25	SAND, gravelly, trace silt GRAVEL, sandy, trace silt		25.1	GP										620.0
26	SAND, trace silt NO CORE													619.0
27														618.0
28	GRAVEL and SAND, trace silt		27.6	GP										617.0
29	TILL													616.0
30				CL										615.0
31														614.0
32														613.0
33	BEDROCK - BASALT			BEDROCK										612.0
34	END OF BOREHOLE AT 33.5 METRES													611.0
35	Elevation is approximate. See Appendix B for grain size results. TH2-08(a) drilled as a pilot hole for well 8 - see Figure 4 for well 8 construction details.													610.0
36														609.0
37														608.0
38														607.0



EBA Engineering Consultants Ltd.

LOGGED BY: [REDACTED]

REVIEWED BY: [REDACTED]

DRAWING NO: TH2-08(a)


COMPLETION DEPTH: 33.5m

COMPLETE: 8/13/2008

Page 2 of 2

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon	Client: City of Whitehorse	PROJECT NO. - BOREHOLE NO.
see Figure 2 for borehole location	Contractor: SDS Drilling	W23101152.001 - TH2-08(b)
	Equipment: Superdrill 150 RDU Sonic Drill	ELEVATION: 645m
SAMPLE TYPE	<input type="checkbox"/> DISTURBED <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> CORE
BACKFILL TYPE	<input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND

Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS PLASTIC M.C. LIQUID 10 20 30 40	PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (MPa)	Elevation (m)
								FINES (%)	SAND (%)	GRAVEL (%)		
0	NO CORE											645.0
1												644.0
2												643.0
3												642.0
4												641.0
5												640.0
6												639.0
7												638.0
8												637.0
9												636.0
10												635.0
11												634.0
12												633.0
13												632.0
14												631.0
15												630.0
16												629.0
17												628.0
18												627.0
19												626.0

 EBA Engineering Consultants Ltd.	LOGGED BY: [REDACTED]	COMPLETION DEPTH: 29m
	REVIEWED BY: [REDACTED]	COMPLETE: 8/13/2008
	DRAWING NO: TH2-08(b)	Page 1 of 2

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.											
see Figure 2 for borehole location		Contractor: SDS Drilling		W23101152.001 - TH2-08(b)											
		Equipment: Superdrill 150 RDU Sonic Drill		ELEVATION: 645m											
SAMPLE TYPE		<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE								
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND								
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (kPa)	Elevation (m)	
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)			
19	NO CORE													626.0	
20															
21															
22															
23															
24															
25															
26															
27		GRAVEL, some silt, trace sand		26.8	GW										618.0
28		SAND, gravelly, trace silt			SW										617.0
29		GRAVEL, some silt, trace sand			GW										616.0
30		TILL			CL										615.0
31		BEDROCK - BASALT			BEDROCK										614.0
32		END OF BOREHOLE AT 29.0 METRES													613.0
33		Elevation is approximate. See Appendix B for grain size results. TH2-08(b) drilled as a pilot hole for well 8 - see Figure 4 for well 8 construction details.													612.0
34															
35															
36															
37															
38															

TESTPIT LL<50 W23101152.GPJ EBA.GDT 08/12/01