PRO	PROJECT: Watson Lake Well 4 CLIENT: Yukon Government TESTHOLE NO: Well 4												
LOC	LOCATION: Watsosn Lake Well Field, Southwest of Well 1a								PROJECT NO.: 60214577				
CO	ONTRACTOR: Midnight Sun Drilling Inc. METHOD: Air Rotary, Sandvik M5								ELEVATION (m): 695.131				
SAM	SAMPLE TYPE GRAB SHELBY TUBE SPLIT SPOON								ØN0				
BAC	KFILL '	TYPE	BENTONITE	GRAVEL	SLOUGH	G							
DEPTH (m)	WELL INSTALLATION	SOIL DESCRIPTION			TION		SAMPLE TYPE	SAMPLE #	со	MMENTS	ELEVATION (m)		
ENVIRO (VAPOURIEZIE3) BH-2012-05-07-WATSON LAKE WELL4-60218577.GPJ AECOM. BBY.6DT 4/10/12 INVIRO (VAPOURIEZIE3) BH-2012-07-WATSON LAKE WELL4-60218577.GPJ AECOM. BBY.6DT 4/10/12 INVIRO (VAPOURIEZIE3) BH-2012-07-07-WATSON LAKE WELL4-60218577.GPJ AECOM. BBY.6DT 4/10/12 INVIRO (VAPOURIEZIE3) BH-2012-07-07-07-07-07-07-07-07-07-07-07-07-07-			SAND and GRAVEL Light brown, angular, coarse san SAND and GRAVEL Light grey, subangular to subrou TILL Light grey, sandy till, some silt al SAND, Gravelly Light grey, angular to subangulal GRAVEL Light grey, angular to subangulal GRAVEL Light grey, angular with some sa SAND SAND SAND Light grey, angular to sub angula Borehole terminated at 29.5 m d	nded, medium to coarse nd clay. r, coarse sand and grave r, medium to coarse sand nd. Becoming fine with d	sand with a trace of a sand with a trace silt.				grout to a depth space following filled with benton around well casi Well stick-up = 0 Well UTM Coord E 0510821 N 66 Depth to Ground 5.56 m below gr Significant water air rotary. Well Casing Info ID: 0.304m (12 i OD: 0.330m (13) Screen Informat Depth: 28.3m be ID: 0.269m (10.9 OD: 0.283m (11) Opening: 60-Slo Screen Length: Total Screen As - includes 0.91m Screen exposed Aquifer)	0.69m Jinates: 15894 Swater ound surface on April 25, 2012. r encountered, discharging from r encountered, discharging from r encountered, discharging from in contemportation in	694 693 692 691 690 693 694 692 691 690 688 687 688 685 684 683 682 681 682 683 682 681 682 681 682 681 682 683 684 683 684 683 684 683 684 685 686 677 676 671 672 671 672 671 672 673 674 673 674 675 674 675 674 6		
NO4 32													
AV) O			AECOM Canada Ltd.			LOGGED BY: (COMPLETION DEPTH: 29.87 m	ı		
	AECOM Canada Ltd. 2251 2 rd Avenue Whitehorse, Yukon Y1A 7A2										1 -1 1		
ш	PROJECT ENG							EK: I	r .	Page 1 of 1			

Table 1: Well Drilling and Completion SummaryTown of Watson LakeGUDI Assessment for Wells 1, 1A, 3 and 4

Well ID	Date Drilled	Lithology (m)	Screened Interval (m)	Slot Size ¹	Pumping Rates
Well 1	December 1973	0 - 5.8 Gravel, Boulders, some clay 5.8 - 12.8 Gravel and Boulders	8.8 - 13	0.125" (125 slot)	11.7 L/sec (186 USgpm)
Well 1A	May 1977	0 - 14.3 Gravel and Sand 14.3 - 15.2 Till 15.2 - 25.9 Sand and Gravel 25.9 - 32 Sand, trace silt & wood	20 - 23.2	0.040" (40 slot)	10.1 L/sec (160 USgpm); later reduced to 8.3 L/sec (132 USgpm)
Well 2	September 1993	0 - 24.9 Gravel 24.9 - 25.6 Silt	21.85 - 24.9 ²	0.200" (200 slot)	11.9 L/sec (189 USgpm)
Well 3	November 2005	0 - 11.9 Sand and Gravel 11.9 - 16.5 Silt and Sand (Till) 16.5 - 23.8 Silty Sand 23.8 - 29 Silt and Sand, wood 29 - 35 Peat 35 - 36 Silty Sand 36 - 41.1 Sand and Gravel	36.4 - 38.8	0.080" (80 slot) 36.4 - 37.6 m 0.040" (40 slot) 37.6 - 38.8 m	12.7 L/sec (202 USgpm)
Well 4 ³	April 2012	0 - 12.2 Sand and Gravel 12.2 - 13.8 Till 13.8 - 22.9 Gravelly Sand 22.9 – 29.9 Sand, trace gravel	28.3 - 31.34	0.060" (60 slot)	30 L/sec (475 USgpm) ⁴

Notes:

Well details from EBA 2006, unless otherwise noted.

1. Slot sizes are given in 1/1000 inch. So, a 100 slot well screen is 1/10 inch or 2.54 mm.

The maximum typically manufactured slot size is 250 slot or 1/4 inch, 6.25 mm.

2. Screen depths from RCPL 1993.

3. Well information from AECOM, 2012.

4. Estimated long-term yield