

# **Appendix F**

## **Hydrogeology**

WELL OBJECT ID	MOE NUMBER	TAG NUMBER	AUDIT NUMBER	REGION ID	CONSULTANT ID	MUNICIPALITY CODE
6504249	6504249			W-DW	DW	503

COUNTY	TOWNSHIP/BOROUGH/CITY/TOWN/VILLAGE	CON	LOT NUMBER	LOT LETTER
WATERLOO	WATERLOO CITY			
OWNER'S SURNAME	FIRST NAME	MIDDLE NAME	LOCATION OF WELL	DATE COMPLETED
TILKOV	PETER			11/27/1974

ZONE	UTM EASTING	UTM NORTHING	GND.ELEVATION	UTM RELIABILITY	ELEVATION RELIABILITY
17	537012.5	4812120.49	332.24	30-100 metre margin of error; Points plotted by inspector in field on topography maps 1:25,000 scale or by using orthorectified imagery and GIS software	Elevation from topographic map; contour interval 3.05 m (10')

LOG OF OVERBURDEN AND BEDROCK MATERIALS

LAYER #	COLOUR	PRIME MATERIAL	OTHER MATERIAL 1	OTHER MATERIAL 2	BOTTOM_DEPTH
1	BROWN	GRAVEL	BOULDERS	NA	3.35
2	GREY	SILT	STONES	NA	3.96
3	BLUE	CLAY	STONES	NA	6.4

DETAILED LITHOLOGY DATA IS AVAILABLE IF THIS BOX IS CHECKED

**WATER RECORD**

**CASING AND OPEN HOLE RECORD**

DEPTH #	DEPTH	KIND OF WATER	ID	DIAMETER	MATERIAL	DEPTH FROM	DEPTH TO	PIPE HT
1	3.35	FRESH	A	762	GALVANIZED		6.4	
			B	914	CONCRETE		4.88	
			C	914	CONCRETE		3.05	

**SCREEN RECORD**

**PLUGGING AND SEALING RECORD**

**PUMPING TEST**

**PUMPING TEST LEVELS**

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING (hr - min)	
			-
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER AT END OF TEST	RECC. PUMP TYPE
3.66			
PUMP INTAKE SET AT	RECC. PUMP SETTING	RECC PUMPING RATE	IF FLOWING GIVE RATE
	5.49	8	

<b>FINAL STATUS OF WELL</b>
WATER SUPPLY
<b>WATER USE</b>
First Use: DOMESTIC
Second Use: OTHER
<b>METHOD OF CONSTRUCTION</b>
BORING

<b>NAME OF WELL CONTRACTOR</b>	<b>WELL CONTRACTOR LICENSE NO.</b>
JOHNSON & BAETZ WELL BORIN	3030
<b>CONTRACTOR ADDRESS</b>	<b>SUBMISSION DATE</b>
19 MACBRIDE COURT	1/24/1975

WELL HAS BEEN ABANDONED/DESTROYED IF THIS BOX IS CHECKED

**DEFINITION**



WELL OBJECT ID	MOE NUMBER	TAG NUMBER	AUDIT NUMBER	REGION ID	CONSULTANT ID	MUNICIPALITY CODE
9200613	6508541		143656	K-SS-SS08-99	SS08-99	503

COUNTY	TOWNSHIP/BOROUGH/CITY/TOWN/VILLAGE	CON	LOT NUMBER	LOT LETTER
WATERLOO	WATERLOO CITY			
OWNER'S SURNAME	FIRST NAME	MIDDLE NAME	LOCATION OF WELL	DATE COMPLETED
RMOW			UNIVERSITY AVE WATERLOO, ONTARIO	5/4/1999

ZONE	UTM EASTING	UTM NORTHING	GND.ELEVATION	UTM RELIABILITY	ELEVATION RELIABILITY
17	537083.6	4811235.9	340	< 3 metre margin of error; location measured in field from mapped features (road intersections, buildings, railways, lot lines, etc.) or GPS technology	Elevation from topographic map; contour interval 3.05 m (10')

LOG OF OVERBURDEN AND BEDROCK MATERIALS

LAYER #	COLOUR	PRIME MATERIAL	OTHER MATERIAL 1	OTHER MATERIAL 2	BOTTOM_DEPTH
1	BROWN	SAND	GRAVEL	NA	1.37
2	BLUE	SAND	GRAVEL	NA	3.05
3	NA	GRAVEL	COBBLES	NA	4.72
4	GREY	SILT	SAND	TILL	5.82
5	GREY	SAND	GRAVEL	NA	6.86
6	BROWN	SILT	GRAVEL	NA	7.16
7	NA	SAND	GRAVEL	NA	7.38
8	BROWN	SILT	GRAVEL	NA	8.23
9	NA	SAND	GRAVEL	NA	8.35
10	BROWN	SILT	GRAVEL	NA	8.5
11	NA	FINE SAND	MEDIUM SAND	NA	12.92
12	BROWN	SILT	FINE SAND	NA	13.26
13	NA	SAND	NA	NA	13.72
14	BROWN	SILT	NA	NA	14.33
15	NA	SAND	FINE SAND	NA	15.85
16	NA	SILT	FINE SAND	NA	16.25
17	NA	SAND	NA	NA	16.55
18	NA	SILT	FINE SAND	NA	19.08
19	NA	SAND	NA	NA	19.2
20	NA	SILT	FINE SAND	NA	19.45
21	NA	SAND	NA	NA	20.82
22	NA	SILT	FINE SAND	NA	21.12
23	NA	SAND	NA	NA	21.21
24	GREY	CLAY	TILL	NA	26.15
25	BROWN	STONES	CLAY	TILL	28.04

DETAILED LITHOLOGY DATA IS AVAILABLE IF THIS BOX IS CHECKED

WATER RECORD

DEPTH #	DEPTH	KIND OF WATER	ID	DIAMETER	MATERIAL	DEPTH FROM	DEPTH TO	PIPE HT
1	5.79	FRESH	A	51	PVC		17.6	

CASING AND OPEN HOLE RECORD

SCREEN RECORD

ID	SLOT	DIAMETER	DEPTH FROM	DEPTH TO
A	10	51	17.6	20.65

PLUGGING AND SEALING RECORD

ID	DEPTH FROM	DEPTH TO	PLUG MATERIAL
A	21.03	28.04	

**PUMPING TEST**

**PUMPING TEST LEVELS**

<b>PUMPING TEST METHOD</b>	<b>PUMPING RATE</b>	<b>DURATION OF PUMPING (hr - min)</b>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	- <input type="text"/>
<b>STATIC LEVEL</b>	<b>WATER LEVEL END OF PUMPING</b>	<b>WATER AT END OF TEST</b>	<b>RECC. PUMP TYPE</b>
<input type="text" value="2.8"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>PUMP INTAKE SET AT</b>	<b>RECC. PUMP SETTING</b>	<b>RECC PUMPING RATE</b>	<b>IF FLOWING GIVE RATE</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**FINAL STATUS OF WELL**  
OBSERVATION WELLS

**WATER USE**  
First Use: OTHER  
Second Use:

**METHOD OF CONSTRUCTION**  
UNKNOWN

<b>NAME OF WELL CONTRACTOR</b>	<b>WELL CONTRACTOR LICENSE NO.</b>
ALL-TERRAIN DRILLING LTD.	1129
<b>CONTRACTOR ADDRESS</b>	<b>SUBMISSION DATE</b>
661 COLBY DRIVE, UNIT #3	11/1/1999

**WELL HAS BEEN ABANDONED/DESTROYED IF THIS BOX IS CHECKED**

**DEFINITION**

SCRN	Production Well	Monitoring Well	Water Qty Well	PTTW Well	Salt or Seasonal Well
A	NOT CLASSIFIED AS A PRODUCTION WELL	MONITOR WELL MANUALLY MEASURED	NOT CLASSIFIED AS A WATER QUALITY WELL	PTTW MONITORING	NOT A SALT OR SEASONAL REPORT WELL