

Appendix B – Testhole Stratigraphic Logs



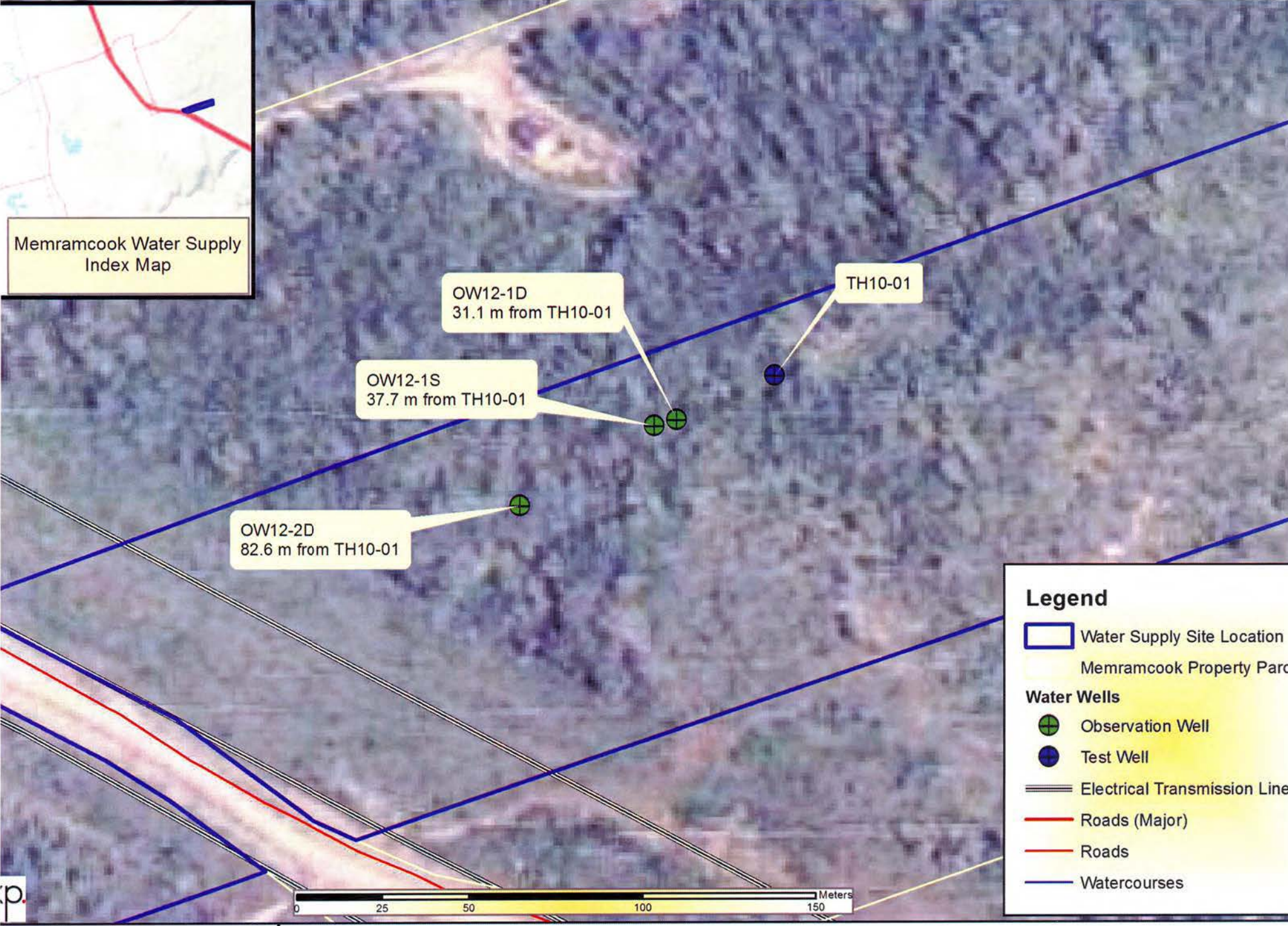
ME12-01 Pump Test (Village of Memramcook)
Pumping well and observation well coordinates

Well I.D.	Northing	Easting	Elevation (m)	Comment
OW12-2D	7446008.940000	2655269.931000	91.092200	Observation Well
ME12-01 (TH10-01)	7446046.757000	2655343.316000	88.666100	Test Well - Developed as ME12-01
OW12-1D	7446033.929000	2655314.962000	89.339100	Observation Well
OW12-1S	7446032.157000	2655308.582000	89.372700	Observation Well

2655200



Memramcook Water Supply Index Map



OW12-1D
31.1 m from TH10-01

OW12-1S
37.7 m from TH10-01

OW12-2D
82.6 m from TH10-01

TH10-01

Legend

- Water Supply Site Location
- Memramcook Property Parc
- Water Wells**
 - Observation Well
 - Test Well
- Electrical Transmission Line
- Roads (Major)
- Roads
- Watercourses



2655200

OFFICE USE ONLY FIELD NO.	HEALTH CODE	LAB NO.	SAMPLE RECEIVED DATE	SAMPLE RECEIVED BY:
	HEALTH OFFICE	EVENT NO.	YR MO DAY	OW12-15

TESTING VOUCHER INFORMATION MANDATORY FOR WATER TEST
SEE BACK FOR DETAILS PLEASE PRINT
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF SAMPLING

FIRST NAME _____ LAST NAME _____
ADDRESS (MAIL RESULTS TO) _____
CITY/TOWN/VILLAGE _____ PROV. _____ POSTAL CODE _____
DAYTIME PHONE _____ FAX NO. _____
TEL NO. _____ SAMPLE COLLECTED YR MO DAY HR MIN AM PM

P.I.D. NO. 70001623004B002 WELL I.D. NO. _____
WELL OWNER INFORMATION
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF DRILLING

FIRST NAME Village de Memramcook LAST NAME _____
ADDRESS 540 rue Centrale
CITY/TOWN/VILLAGE Memramcook NB PROVINCE NB POSTAL CODE E4K 3S6
WELL LOCATION: SAME AS ABOVE OR CIVIC NUMBER STREET NAME 012-125
CITY/TOWN/VILLAGE Memramcook WELL PAID FOR BY PROVINCE DEPT. OF _____

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE?
IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:
ATTENTION OF: _____
TEL NO. _____ FAX NO. _____
SIGNATURE OF WELL OWNER _____

DRILLER'S LOG

FROM (FT)	TO (FT)	COLOUR	ROCK TYPE
12	50	Brown	Overburden
		Grey	Conglomerate

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING?
YES NO
WELL / WATER USE:
INDUSTRIAL ABANDONED DOMESTIC
EXPLORATORY MUNICIPAL MONITORING
HEAT PUMP OBSERVATION OTHER

TYPE OF WORK COMPLETED: NEW WELL DEEPENED
OTHER: _____
METHOD:
CABLE TOOL ROTARY OTHER _____

CASING INSTALLED:
LENGTH OF CASING ABOVE GROUND: 2 FT. 0 IN.
STEEL: 693 IN DIAM. FROM 0 FT. TO 20 FT.
PVC: _____ IN DIAM. FROM _____ FT. TO _____ FT.
SLOTTED _____ IN DIAM. FROM _____ FT. TO _____ FT.
SCREENS: TYPE: _____ SLOT SIZE _____
_____ IN DIAM. FROM _____ FT. TO _____ FT. DRIVE SHOE: YES NO

SETBACKS: SEE BACK FOR DETAILS SEPTIC TANK (1) 1 FT. SEPTIC TANK (2) _____ FT. FIELD (2) _____ FT. FIELD (1) 1 FT.
*RIGHT OF WAY OF ANY PUBLIC ROAD (1) 1km ROAD (2) _____
CENTER OF ROAD (1) 1km (2) _____
SETBACKS MEASURED _____ (NEW CONSTRUCTION)
APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER _____ (EXISTING CONST.)

FLOWING WELL? YES NO IF YES - RATE: _____ lpgm (approx.)
AQUIFER TEST: METHOD: AIR BAILER PUMP
INITIAL WATER LEVEL: 10 FT BELOW TOP OF CASING
PUMPING RATE 3 lpgm DURATION: 1 hrs 00 min.
FINAL WATER LEVEL: 10 FT. BELOW TOP OF CASING
ESTIMATED SAFE YIELD: 3 lpgm

WELL GROUTED? YES NO
FROM _____ FT. TO _____ FT. GROUT TYPE: _____
DRILLING FLUIDS USED: YES NO
TYPE: Chlorine Tablets

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS
TOTAL WELL DEPTH: 50 FT. DEPTH TO BEDROCK: 12 FT.
WATER BEARING 1 3 lpgm AT 30 FT. 2 _____ lpgm AT _____ FT.
FRACTURE ZONES: 3 _____ lpgm AT _____ FT. 4 _____ lpgm AT _____ FT.

PUMP INSTALLATION: INSTALLED NOT INSTALLED
PUMP INTAKE SETTING: _____ FT. BELOW TOP OF CASING (Recommended)
PUMP TYPE: SUBMERSIBLE JET TURBINE
OTHER _____
WELL DISINFECTED? YES NO
TYPE: Chlorine Tablets

DRILLER'S COMMENTS
*no septic on property
* Test hole only - well not completed
G.P.S. (OPTIONAL) _____

DRILLING COMPANY: Eastern Well Drillers Ltd
COMPLETION DATE: 11/20/16 YR. MO. DAY LICENSE NO. 1617

I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.
Signature of Driller: Paul Bellan Signature of Helper: Marc 2Blanc

- WHITE - NB DENV
 - BLUE - Homeowner / Voucher
 - YELLOW - Homeowner
 - PINK - Drilling Company
- KEEP THIS REPORT WITH YOUR IMPORTANT DOCUMENTS**

OFFICE USE ONLY
FIELD NO.

HEALTH CODE LAB NO.

SAMPLE RECEIVED
DATE

SAMPLE RECEIVED BY:

OW12-1D

TESTING VOUCHER INFORMATION
SEE BACK FOR DETAILS PLEASE PRINT
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF SAMPLING

MANDATORY FOR WATER TEST

P.I.D. NO. 70.001.623.0048000
WELL I.D. NO.

FIRST NAME LAST NAME
ADDRESS (MAIL RESULTS TO)
CITY/TOWN/VILLAGE PROV. POSTAL CODE
DAYTIME PHONE FAX NO.
TEL. NO. SAMPLE COLLECTED YR MO DAY HR MIN AM PM

WELL OWNER INFORMATION
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF DRILLING
FIRST NAME LAST NAME
ADDRESS Village de Memramouk
547 rue Central St
Memramouk NB E4K 3S6
WELL LOCATION: SAME AS ABOVE OR CIVIC NUMBER STREET NAME
East Memramouk TW 2018-12

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE?
IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:

SEE BACK FOR DETAILS

WELL PAID FOR BY PROVINCIAL DEPT. OF
WELL ON RESERVE? YES NO
WELL ALREADY TAGGED? YES NO
OLD WELL I.D. OW12-1D

ATTENTION OF:
TEL. NO. FAX NO.
SIGNATURE OF WELL OWNER

DRILLER'S LOG
FROM (FT.) TO (FT.) COLOUR ROCK TYPE

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING?
YES NO

WELL / WATER USE:
INDUSTRIAL ABANDONED DOMESTIC
EXPLORATORY MUNICIPAL MONITORING
HEAT PUMP OBSERVATION OTHER

FROM (FT.)	TO (FT.)	COLOUR	ROCK TYPE
Ground Level	12	Brown	Overburden
12	127	Grey	Conglomerate
127	134	Grey	Sandstone
134	145	Dark Grey	Sandstone (magness)
145	149	Grey	Shale
149	175	Grey	Sandstone
175	180	Grey	Shale
180	190	Brown	Shale clay
190	194	Grey	Shale
194	223	Grey	Sandstone
223	232	Grey	Shale
232	251	Brown	Shale
251	257	Brown	Conglomerate
257	270	Grey	Conglomerate
270	280	Brown	Conglomerate

TYPE OF WORK COMPLETED: NEW WELL DEEPEINED

METHOD:
CABLE TOOL ROTARY OTHER

CASING INSTALLED:
LENGTH OF CASING ABOVE GROUND: 2 FT. 0 IN.
STEEL: 693 IN DIAM. FROM 0 FT. TO 152 1/2 FT.
PVC: IN DIAM. FROM FT. TO FT.
SLOTTED IN DIAM. FROM FT. TO FT.

SCREENS: TYPE: SLOT SIZE
IN DIAM. FROM FT. TO FT. DRIVE SHOE: YES NO

SETBACKS: SEE BACK FOR DETAILS SEPTIC TANK (1) * FT.
SEPTIC TANK (2) FT. FIELD (2) FT. FIELD (1) † FT.
*RIGHT OF WAY OF ANY PUBLIC ROAD (1) 1km ROAD (2)
CENTER OF ROAD (1) 1km (2)
SETBACKS MEASURED (NEW CONSTRUCTION)
APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER (EXISTING CONST.)

FLOWING WELL? YES NO IF YES - RATE: igpm (approx.)

AQUIFER TEST: METHOD: AIR BAILER PUMP
INITIAL WATER LEVEL: 20 FT BELOW TOP OF CASING
PUMPING RATE 200+ igpm DURATION: 1 hrs. 00 min.
FINAL WATER LEVEL: 30 FT. BELOW TOP OF CASING
ESTIMATED SAFE YIELD: 200+ igpm

WELL GROUTED? YES NO
FROM FT. TO FT. GROUT TYPE:
DRILLING FLUIDS USED: YES NO
TYPE:

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS
TOTAL WELL DEPTH: 280 FT. DEPTH TO BEDROCK: 149 FT.
WATER BEARING 1 - 500 igpm AT 100 FT. 2 - 150 igpm AT 165 FT.
FRACTURE ZONES: 3 - 25 igpm AT 200 FT. 4 - 25 igpm AT 257 FT.

PUMP INSTALLATION: INSTALLED NOT INSTALLED
PUMP INTAKE SETTING: FT. BELOW TOP OF CASING
PUMP TYPE: SUBMERSIBLE JET TURBINE
OTHER
WELL DISINFECTED? YES NO
TYPE Chlorine Tablets

DRILLER'S COMMENTS
*no septic on this property

DRILLING COMPANY: Eastern Well Drillers Ltd
COMPLETION DATE: 12/20/14 YR. MO. DAY LICENSE NO. 167

*Test hole only, well not completed
G.P.S. (OPTIONAL)
I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.
Signature of Driller: Paul Leslanc
Signature of Helper: Marc YRanc

WHITE - NB DENV
BLUE - Homeowner / Voucher
YELLOW - Homeowner
PINK - Drilling Company
KEEP THIS REPORT WITH YOUR IMPORTANT DOCUMENTS

OFFICE USE ONLY
FIELD NO. HEALTH CODE: LAB NO. SAMPLE RECEIVED DATE
HEALTH OFFICE EVENT NO. YR MO DAY

SAMPLE RECEIVED BY: OW 12-20

TESTING VOUCHER INFORMATION
SEE BACK FOR DETAILS PLEASE PRINT
MANDATORY FOR WATER TEST
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF SAMPLING
FIRST NAME LAST NAME

ADDRESS (MAIL RESULTS TO)
CITY/TOWN/VILLAGE PROV. POSTAL CODE
DAYTIME PHONE FAX NO.
TEL. NO. SAMPLE COLLECTED YR MO DAY HR MIN AM PM

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE?
IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:
ATTENTION OF:
TEL. NO. FAX NO.
SIGNATURE OF WELL OWNER

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING?
YES NO
WELL / WATER USE:
INDUSTRIAL ABANDONED DOMESTIC
EXPLORATORY MUNICIPAL MONITORING
HEAT PUMP OBSERVATION OTHER

TYPE OF WORK COMPLETED: NEW WELL DEEPENED
OTHER:
METHOD:
CABLE TOOL ROTARY OTHER

CASING INSTALLED:
LENGTH OF CASING ABOVE GROUND: 2 FT. 2 IN.
STEEL: 6.75 IN DIAM. FROM 16.0 FT TO 16.0 FT.
PVC: IN DIAM. FROM FT. TO FT.
SLOTTED IN DIAM. FROM FT. TO FT.
SCREENS: TYPE: SLOT SIZE
IN DIAM. FROM FT. TO FT. DRIVE SHOE: YES NO

SETBACKS: SEE BACK FOR DETAILS SEPTIC TANK (1) * FT. FT.
SEPTIC TANK (2) FT. FIELD (2) FT. FIELD (1) * FT. FT.
*RIGHT OF WAY OF ANY PUBLIC ROAD 1 Km ROAD (2)
CENTER OF ROAD (1) 1 Km (2)
SETBACKS MEASURED (NEW CONSTRUCTION)
APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER (EXISTING CONST.)

FLOWING WELL? YES NO IF YES - RATE: igpm (approx.)
AQUIFER TEST: METHOD: AIR BAILER PUMP
INITIAL WATER LEVEL: 20 FT BELOW TOP OF CASING
PUMPING RATE 3 igpm DURATION: 1 hrs. 02 min.
FINAL WATER LEVEL: 22 FT. BELOW TOP OF CASING
ESTIMATED SAFE YIELD: 3 igpm

WELL GROUDED? YES NO
FROM FT. TO FT. GROUT TYPE:
DRILLING FLUIDS USED: YES NO
TYPE:

DRILLER'S COMMENTS
no septic on property
Test Hole only - Well not completed

G.P.S. (OPTIONAL)
I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.
Signature of Driller: [Signature] Signature of Helper: [Signature]

DRILLING COMPANY: Eastern Well Drillers Ltd
COMPLETION DATE: 11/20/15 YR MO DAY
LICENSE NO.: 67

P.I.D. NO. 700016230048001
WELL I.D. NO.
WELL OWNER INFORMATION
INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF DRILLING
FIRST NAME LAST NAME
Address Village de Memramcook
540 rue Centrale
CITY/TOWN/VILLAGE PROV. POSTAL CODE
Memramcook NB E4K 3S6
WELL LOCATION: SAME AS ABOVE OR CIVIC NUMBER STREET NAME
East Memramcook NB 101 #3
WELL PAID FOR BY PROVINCIAL DEPT. OF

DRILLER'S LOG *

FROM (FT.)	TO (FT.)	COLOUR	ROCK TYPE
Ground Level	10	Brown	Overburden
10	30	Brown	Clay (mixed Rock)
30	34	Grey	Conglomerate (Bak)
34	80	Grey	Conglomerate
80	88	Grey	Shale
88	98	Grey	Conglomerate
98	100	Grey	Sandstone (magness)
100	102	Grey	Shale
102	120	Grey	Conglomerate
120	137	Grey	Sandstone
137	158	Dark Grey	Shale Stone (magness)
158	179	Grey	Sandstone
179	181	Grey	Shale
181	192	Brown	Shale clay
192	201	Grey	Sandstone
201	210	Brown	Shale clay
210	232	Grey	Sandstone
232	248	Brown	Shale
248	280	Brown	Conglomerate

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS
TOTAL WELL DEPTH: 282 FT. DEPTH TO BEDROCK: 158 FT.
WATER BEARING 1 10 igpm AT 30 FT. 2 20 igpm AT 70 FT.
FRACTURE ZONES: 3 30 igpm AT 100 FT. 4 3 igpm AT 210 FT.

PUMP INSTALLATION: INSTALLED NOT INSTALLED
PUMP INTAKE SETTING: FT. BELOW TOP OF CASING
PUMP TYPE: SUBMERSIBLE VET TURBINE
OTHER
WELL DISINFECTED? YES NO
TYPE: Chlorine Tablets

WHITE - NB DENV
BLUE - Homeowner / Voucher
YELLOW - Homeowner
PINK - Drilling Company
KEEP THIS REPORT WITH YOUR IMPORTANT DOCUMENTS

DRILLER'S REPORT

ME 12-01 (7110-01)

OFFICE USE ONLY FIELD NO.

HEALTH CODE LAB NO.

SAMPLE RECEIVED DATE

HEALTH OFFICE EVENT NO.

YR MO DAY

SAMPLE RECEIVED BY:

TESTING VOUCHER INFORMATION MANDATORY FOR WATER TEST

SEE BACK FOR DETAILS PLEASE PRINT INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF SAMPLING

P.I.D. NO. WELL I.D. NO.

700016230042890

FIRST NAME LAST NAME

WELL OWNER INFORMATION INFORMATION INCLUDED HEREIN SHOULD BE THE WELL OWNER AT TIME OF DRILLING

ADDRESS (MAIL RESULTS TO:)

Village de Memramcook

CITY/TOWN/VILLAGE PROV. POSTAL CODE

540 Rue Centrale

DAYTIME PHONE FAX NO.

Memramcook NB E4K 3S6

TEL NO. SAMPLE COLLECTED YR MO DAY HR MIN AM PM

WELL LOCATION: SAME AS ABOVE OR CIVIC NUMBER STREET NAME

Test Hole Drilling 2009- #10

DO YOU NEED A SAMPLE FOR YOUR MORTGAGE? IF YOU WISH THE RESULTS TO BE RELEASED TO A MORTGAGE INSTITUTION PLEASE INCLUDE THE FOLLOWING CONTACT INFORMATION:

CITY/TOWN/VILLAGE WELL PAID FOR BY PROVINCIAL DEPT. OF

East Memramcook

WELL ON RESERVE? WELL ALREADY TAGGED? OLD WELL I.D.

YES NO YES NO

ATTENTION OF:

TEL NO. FAX NO.

SIGNATURE OF WELL OWNER

DRILLER'S LOG

Table with columns: FROM (FT.), TO (FT.), COLOUR, ROCK TYPE. Rows include data from 13 ft to 322 ft with descriptions like 'Brown', 'Grey', 'Sandstone', 'Shale', 'Conglomerate'.

WAS THE COST OF THIS WELL FINANCED BY NB HOUSING? YES NO

WELL / WATER USE: INDUSTRIAL ABANDONED DOMESTIC EXPLORATORY MUNICIPAL MONITORING HEAT PUMP OBSERVATION OTHER

TYPE OF WORK COMPLETED: NEW WELL DEEPEINED

METHOD:

CABLE TOOL ROTARY OTHER

CASING INSTALLED: LENGTH OF CASING ABOVE GROUND: 2 FT. 0 IN.

STEEL: 6" IN DIAM. FROM 0 FT. TO 122 FT.

PVC: IN DIAM. FROM FT. TO FT.

SLOTTED: IN DIAM. FROM FT. TO FT.

SCREENS: TYPE: SLOT SIZE DRIVE SHOE: YES NO

SETBACKS: SEE BACK FOR DETAILS SEPTIC TANK (1) FT.

SEPTIC TANK (2) FT. FIELD (2) FT. FIELD (1) FT.

*RIGHT OF WAY OF ANY PUBLIC ROAD (1) 1 Km ROAD (2)

SETBACKS MEASURED (NEW CONSTRUCTION)

APPROXIMATE SETBACKS AS INDICATED BY HOMEOWNER (EXISTING CONST.)

IF INSUFFICIENT SPACE PLEASE USE ADDITIONAL SHEETS

FLOWING WELL? YES NO IF YES - RATE: (gpm approx.)

TOTAL WELL DEPTH: 322 FT. DEPTH TO BEDROCK: 82 FT.

AQUIFER TEST: METHOD: AIR BAILER PUMP

WATER BEARING 1 100 igpm AT 96 FT. 2 150 igpm AT 167 FT.

INITIAL WATER LEVEL: 80 FT BELOW TOP OF CASING

FRACTURE ZONES: 3 50 igpm AT 93 FT. 4 100 igpm AT 224 FT.

PUMPING RATE 400 igpm DURATION: 1 hrs. 0 min.

FINAL WATER LEVEL: 20 FT. BELOW TOP OF CASING

ESTIMATED SAFE YIELD: 400 igpm

PUMP INSTALLATION: INSTALLED NOT INSTALLED

WELL GROUDED? YES NO

PUMP INTAKE SETTING: FT. BELOW TOP OF CASING

FROM FT. TO FT. GROUT TYPE:

PUMP TYPE: SUBMERSIBLE JET TURBINE

DRILLING FLUIDS USED: YES NO

OTHER

WELL DISINFECTED? YES NO

DRILLER'S COMMENTS

DRILLING COMPANY: Eastern Well Drillers Ltd

G.P.S. (OPTIONAL)

COMPLETION DATE: 10 01 19 LICENSE NO. 67

I CERTIFY THAT THE WELL HEREIN DESCRIBED HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE WATER WELL REGULATION UNDER THE NEW BRUNSWICK CLEAN WATER ACT.

Signature of Driller

Signature of Helper

- WHITE - NB DELG
BLUE - Homeowner / Voucher
YELLOW - Homeowner
PINK - Drilling Company

KEEP THIS REPORT WITH YOUR IMPORTANT DOCUMENTS