

Killaloe Drinking Water System

2012 Annual Water Report

Reporting period of January 1, 2012 – December 31, 2012



Prepared For: The Township of Killaloe, Hagarty & Richards

Prepared By:



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

This report has been prepared to satisfy the annual reporting requirements of the Provincial Regulations and Guidelines

Report Availability.....	3
Compliance Report Card	3
Quality Control Measures	3
System Process Description	4
Raw Source.....	4
Treatment	4
Treatment Chemicals used during the reporting year:.....	6
Summary of Non-Compliance	6
Adverse Water Quality Incidents	6
Non-Compliance	6
Non-Compliance Identified in a Ministry Inspection:	6
Flows	7
Raw Water Flows	7
Treated Water Flows.....	7
Regulatory Sample Results Summary	8
Microbiological Testing.....	8
Operational Testing.....	8
On-Line.....	8
In-House.....	8
Laboratory.....	8
Additional Legislated Samples	9
Inorganic Parameters.....	9
Lead Sampling:	10
Organic Parameters	10
Maintenance Summary	12
Maintenance Highlights	12
QEMS	12
Water Taking and Transfer Data	13

Appendix A - Annual Record of Water Taking Report

Appendix B - WTRS Data and Submission Confirmation

Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residence at the Township of Killaloe, Hagarty & Richards Municipal Office. Notification will be at the Municipal Office and copies provided free of charge if requested. The Township of Killaloe, Hagarty & Richards is located at, 1 John Street in the Village of Killaloe.

There are no systems additional drinking water systems that receive water from this facility.

Compliance Report Card

Drinking Water System Number:	220006026
System Owner:	Township of Killaloe, Hagarty and Richards
Operating Authority:	Ontario Clean Water Agency
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2012 – December 31, 2012

Compliance Event	# of Events	Details
Ministry of Environment Inspections	2	Inspection Report received for January 2012 <ul style="list-style-type: none"> • No actions required Inspection site visit completed December 2012 <ul style="list-style-type: none"> • Waiting on report
Ministry of Labour Inspections	0	
QEMS External Audit	0	
AWQI's	3	Distribution THM's
Non-Compliance	0	
Community Complaints	0	
Spills	0	

Quality Control Measures

The Township of Killaloe, Hagarty & Richards facilities are part of OCWA's operational Ottawa Valley Hub. The facilities are supported by hub, regional and corporate resources. Operational Services are delivered by OCWA staff who live and work in the community.

OCWA operates facilities in compliance with applicable regulations. The facility has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents, with annual reviews.

OCWA has additional “Value Added” and operational support services that the Township of Killaloe, Hagarty & Richards benefits from including:

- Access to a network of operational compliance and support experts at the regional and corporate level, as well as affiliated programs that include the following:
 - Quality & Environmental Management System, Occupational Health & Safety System and an internal compliance audit system.
 - Process Data Collection (PDC) facility operating information repository, which consolidates field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
 - Work Management System (WMS) that tracks and reports maintenance activities, and creates predictive and preventative reports.
 - Outpost 5 wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming and optimization of staff time.
- Client reporting which includes operational data, equipment inventory, financial statements, maintenance work orders, and capital status reports
- Site-Specific Contingency Plans and Standard Operating Procedures
- Use of accredited laboratories
- Access to a network of operational compliance and support experts at the hub, region and corporate level
- Additional support in response to unusual circumstances, and extra support in an emergency.
- Use of sampling schedules for external laboratory sampling

System Process Description

Raw Source

Raw water source for the Killaloe Drinking Water System is a Well located at the Treatment Plant.



Treatment

During the 2012 reporting year upgrades to the facility were completed and came on-line on November 29, 2012. The upgrades were completed to address the distribution THM issues the system had.

Killaloe Water Treatment Plant is a single well, groundwater system equipped with greensand contactors that provide iron and manganese removal.



Pre-disinfection is provided using sodium hypochlorite and ultraviolet light. Secondary disinfection was achieved using sodium hypochlorite prior to the clearwells. As of November 29, 2012 secondary disinfection is being provided using stabilized hydrogen peroxide. The peroxide is injected prior to the clearwells and a residual is maintained through the distribution system.



Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Potassium Permanganate	Contactor	Cariox
Sodium Hypochlorite	Disinfection	Brenntag
Hydrogen Peroxide (Huwa San)	Disinfection	San Eco Tech

Summary of Non-Compliance**Adverse Water Quality Incidents**

Date	AWQI #	Location	Problem	Legislation	Details	Corrective ActionTaken
20-Jul-12	107340	Distribution	THM	170/03	Annual Running Average 110 ug/L	Re-sampled and tested No further Direction
04-Oct-12	118774	Distribution	THM	170/03	Annual Running Average 131 ug/L	Re-sampled and tested No further Direction
30-Oct-12	109159	Distribution	THM	170/03	Annual Running Average 132 ug/L	Re-sampled and tested No further Direction

Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There were no non compliances reported for this facility in 2012				

Non-Compliance Identified in a Ministry Inspection:

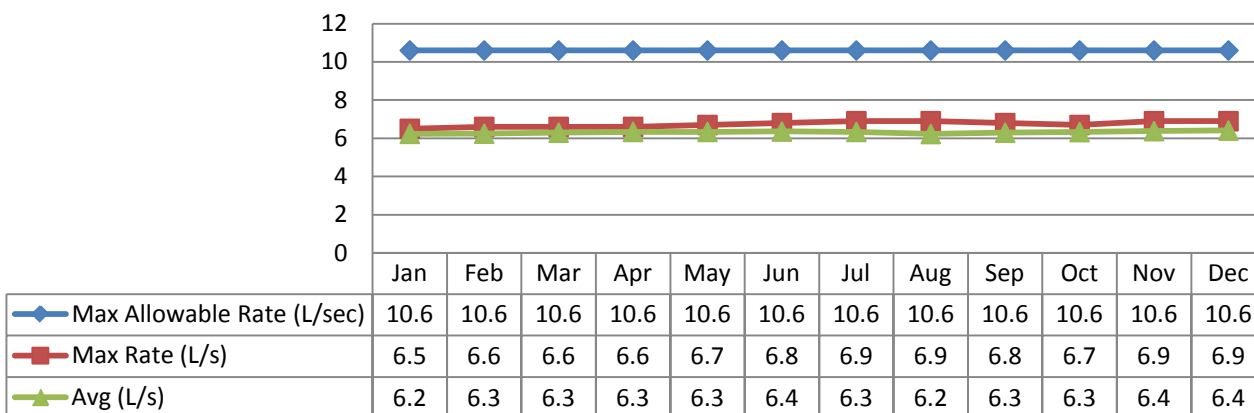
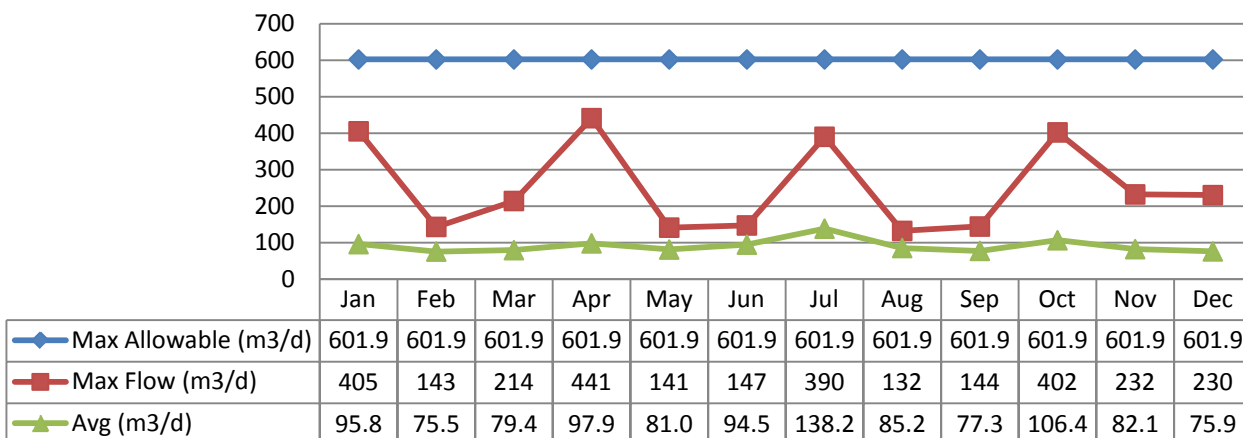
Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
Inspection Report received for January 2012 <ul style="list-style-type: none"> No actions required Inspection site visit completed December 2012 <ul style="list-style-type: none"> Waiting on report 				

Flows

The Killaloe Drinking Water System is operating on average under half the rated capacity. Additional flow data can be found in Appendix A – Annual Record of Water Taking.

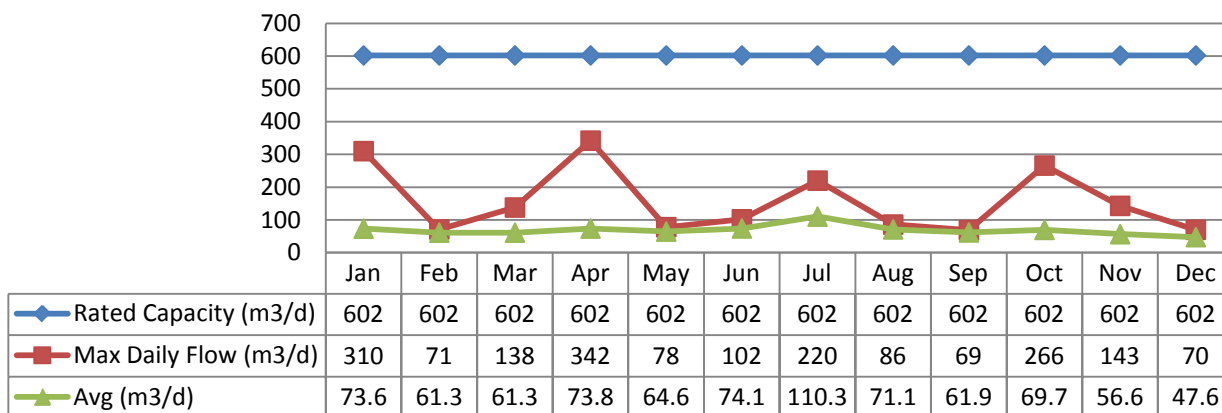
Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water.



Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.



Regulatory Sample Results Summary

Microbiological Testing

Location	Number of Samples	E.coli Results (min) - (max)	Total Coliform Results (min) – (max)	Number of HPC Samples	HPC Results (min) - (max)
Raw - RW	52	0 - 0	0 - 0	1	0 - 0
Treated - TW	52	0 - 0	0 - 0	53	0 - 25
Distribution - DW	108	0 - 0	0 - 0	125	0 - 13

Operational Testing

On-Line

Parameter	Range of Results (min # - max #)
Primary Free Chlorine	0.12 – 2.63 mg/L
Pre Clearwell Peroxide	0.02-20 ppm
Post Clearwell Peroxide	3.9-19.9 ppm
Treated Turbidity	0.01-2.13 NTU
Distribution Free Chlorine	0.19 – 2.4 mg/L
Distribution Peroxide	0.157-19.9 ppm
Fluoride	Fluoride is not added at this facility

NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03

In-House

Parameter	# of grab samples taken	Range of Results (min # - max #)
Treated Free Chlorine	228	0.72-1.91 mg/L
Post Clearwell Peroxide Residual	19	9-11.9 ppm
Treated Turbidity	249	0.07-0.16 NTU
Treated Colour	105	0-1 TCU
Treated pH	105	7.7-7.99
Treated Iron	105	0.001-0.035 mg/L
Treated Manganese	104	0.022-0.1 mg/L
Distribution Free Chlorine	108	0.112-1.37 mg/L
Distribution Peroxide Residual	21	6-21 ppm
Distribution pH	33	7.8-8.35

Laboratory

Parameter	# of Samples	Range of Results (min # - max #)
Fluoride	Fluoride is not used at this facility	
Treated Alkalinity	12	228-260 mg/L
Treated Colour	12	<3 – 11 TCU
Treated Conductivity	12	715-795 uS/cm
Treated pH	12	8.04-8.3
Production Well Benzene	1	<0.32 ug/L
Production Well Ethylbenzene	1	0.33 ug/L
Production Well m/p-xylene	1	<0.39 ug/L
Production Well o-xylene	1	<0.17 ug/L
Production Well Xylene: Total	1	<0.39 mg/L

Parameter	# of Samples	Range of Results (min # - max #)
Production Well Toluene	1	<0.36 ug/L
Test Well Benzene	1	<0.32 ug/L
Test Well Ethylbenzene	1	0.33 ug/L
Test Well m/p-xylene	1	<0.39 ug/L
Test Well o-xylene	1	<0.17 ug/L
Production Well Xylene: Total	1	<0.39 mg/L
Test Well Toluene	1	<0.36 ug/L

Additional Legislated Samples

Legal Document	Date of Issuance	Parameter	Date Sampled	Result	Unit of measure
Municipal License #259-101	16-Nov-2012	Backwash Effluent Suspended Solids	Annual Avg	2.4	mg/L
Municipal License #259-101	16-Nov-2012	Backwash Effluent pH	Annual Avg	8.2	no units
Municipal License #259-101	16-Nov-2012	Distribution Copper	2012/11/22	69.3	ug/L
Municipal License #259-101	16-Nov-2012	Distribution Lead	2012/10/10	0.09	ug/L
Municipal License #259-101	16-Nov-2012	Distribution THM	2012/10/25	113	ug/L

- Hydrogen peroxide residuals see Operational Testing
- HPC Testing Results see Microbiological testing
- pH testing results see Operational Testing
- Free Chlorine – Hot water tank all results were 0.0 mg/L

Inorganic Parameters

These parameters are tested annually as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrates are tested quarterly as required under 170/03. In the event any of the parameters (except Sodium and Fluoride) exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- BDL = Below the laboratory detection level

Parameter	Sample Date	Result Value	MAC	MAC Exceedance	½ MAC Exceedance
Antimony: Sb (ug/L) - TW	2012/01/10	< 0.020	6	No	No
Arsenic: As (ug/L) - TW	2012/01/10	1.30	25	No	No
Barium: Ba (ug/L) - TW	2012/01/10	179.00	1000	No	No
Boron: B (ug/L) - TW	2012/01/10	122.00	5000	No	No
Cadmium: Cd (ug/L) - TW	2012/01/10	< 0.0030	5	No	No
Chromium: Cr (ug/L) - TW	2012/01/10	1.30	50	No	No
Mercury: Hg (ug/L) - TW	2012/01/10	< 0.020	1	No	No
Selenium: Se (ug/L) - TW	2012/01/10	< 1.00	10	No	No
Sodium: Na (mg/L) - TW	2008/01/15	28.00	20	Yes	Yes
Uranium: U (ug/L) - TW	2012/01/10	2.34	20	No	No

Fluoride Residual: Mean (mg/L) - TW	2008/01/15	0.28	1.5	No	No
Nitrite (mg/L) - TW	2012/01/03	< 0.0050	1	No	No
Nitrite (mg/L) - TW	2012/04/03	< 0.0050	1	No	No
Nitrite (mg/L) - TW	2012/07/03	< 0.0050	1	No	No
Nitrite (mg/L) - TW	2012/10/01	< 0.0050	1	No	No
Nitrate (mg/L) - TW	2012/01/03	< 0.013	10	No	No
Nitrate (mg/L) - TW	2012/04/03	< 0.013	10	No	No
Nitrate (mg/L) - TW	2012/07/03	< 0.013	10	No	No
Nitrate (mg/L) - TW	2012/10/01	0.013	10	No	No

Lead Sampling:

This facility is sampling under the exemption requirements of O.Reg 170/03.

Round 1

	# Collected	# Exceeded 1/2 MAC	# Exceeded MAC	Sample #1 Result	Sample #2 Result	pH	Alkalinity
Residential Samples	Exempt						
Non-Residential Samples	Exempt						
Distribution Samples	1	0	0	1.09 ug/L	N/A	7.97	257

Round 2

	# Collected	# Exceeded 1/2 MAC	# Exceeded MAC	Sample #1 Result	Sample #2 Result	pH	Alkalinity
Residential Samples	Exempt						
Non-Residential Samples	Exempt						
Distribution Samples	1	0	0	0.09 ug/L	N/A	7.64	224

Organic Parameters

These parameters are tested annually as a requirement under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- BDL = Below the laboratory detection level

Parameter	Sample Date	Result Value	MAC	MAC Exceedance	½ MAC Exceedance
Alachlor (ug/L) - TW	2012/01/10	< 0.020	5	No	No
Aldicarb (ug/L) - TW	2012/01/10	< 0.010	9	No	No
Aldrin + Dieldrin (ug/L) - TW	2012/01/10	< 0.010	0.07	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2012/01/10	< 0.010	5	No	No
Azinphos-methyl (ug/L) - TW	2012/01/10	< 0.020	20	No	No
Bendiocarb (ug/L) - TW	2012/01/10	< 0.010	40	No	No
Benzene (ug/L) - TW	2012/01/10	< 0.32	5	No	No

Benzo(a)pyrene (ug/L) - TW	2012/01/10	< 0.0040	0.01	No	No
Bromoxynil (ug/L) - TW	2012/01/10	< 0.33	5	No	No
Carbaryl (ug/L) - TW	2012/01/10	< 0.010	90	No	No
Carbofuran (ug/L) - TW	2012/01/10	< 0.010	90	No	No
Carbon Tetrachloride (ug/L) - TW	2012/01/10	< 0.16	5	No	No
Chlordane:Total (ug/L) - TW	2012/01/10	< 0.010	7	No	No
Chlorpyrifos (ug/L) - TW	2012/01/10	< 0.020	90	No	No
Cyanazine (ug/L) - TW	2012/01/10	< 0.030	10	No	No
Diazinon (ug/L) - TW	2012/01/10	< 0.020	20	No	No
Dicamba (ug/L) - TW	2012/01/10	< 0.20	120	No	No
1,2-Dichlorobenzene (ug/L) - TW	2012/01/10	< 0.41	200	No	No
1,4-Dichlorobenzene (ug/L) - TW	2012/01/10	< 0.36	5	No	No
Dichlorodiphenyltrichloroethane(DDT) + metabolites (ug/L) - TW	2012/01/10	< 0.010	30	No	No
1,2-Dichloroethane (ug/L) - TW	2012/01/10	< 0.35	5	No	No
1,1-Dichloroethylene (ug/L) - TW	2012/01/10	< 0.33	14	No	No
Dichloromethane (ug/L) - TW	2012/01/10	< 0.35	50	No	No
2,4-Dichlorophenol (ug/L) - TW	2012/01/10	< 0.15	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2012/01/10	< 0.19	100	No	No
Diclofop-methyl (ug/L) - TW	2012/01/10	< 0.40	9	No	No
Dimethoate (ug/L) - TW	2012/01/10	< 0.030	20	No	No
Dinoseb (ug/L) - TW	2012/01/10	< 0.36	10	No	No
Diquat (ug/L) - TW	2012/01/10	< 1.00	70	No	No
Diuron (ug/L) - TW	2012/01/10	< 0.030	150	No	No
Glyphosate (ug/L) - TW	2012/01/10	< 6.00	280	No	No
Heptachlor+Hepachlor Epoxide (ug/L) - TW	2012/01/10	< 0.010	3	No	No
Lindane: (ug/L) - TW	2012/01/10	< 0.010	4	No	No
Malathion (ug/L) - TW	2012/01/10	< 0.020	190	No	No
Methoxychlor (ug/L) - TW	2012/01/10	< 0.010	900	No	No
Metolachlor (ug/L) - TW	2012/01/10	< 0.010	50	No	No
Metribuzin (ug/L) - TW	2012/01/10	< 0.020	80	No	No
Monochlorobenzene (ug/L) - TW	2012/01/10	< 0.30	80	No	No
Paraquat (ug/L) - TW	2012/01/10	< 1.00	10	No	No
Parathion (ug/L) - TW	2012/01/10	< 0.020	50	No	No
Pentachlorophenol (ug/L) - TW	2012/01/10	< 0.15	60	No	No
Phorate (ug/L) - TW	2012/01/10	< 0.010	2	No	No
Picloram (ug/L) - TW	2012/01/10	< 0.25	190	No	No
Polychlorinated Bichenysl(PCB) (ug/L) - TW	2012/01/10	< 0.040	3	No	No
Prometryne (ug/L) - TW	2012/01/10	< 0.030	1	No	No
Simazine (ug/L) - TW	2012/01/10	< 0.010	10	No	No
THM (ug/L) - DW	2012	147.50	100	Yes	Yes
Temephos (ug/L) - TW	2012/01/10	< 0.010	280	No	No
Terbufos (ug/L) - TW	2012/01/10	< 0.010	1	No	No

Tetrachloroethylene (ug/L) - TW	2012/01/10	< 0.35	30	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2012/01/10	< 0.14	100	No	No
Triallate (ug/L) - TW	2012/01/10	< 0.010	230	No	No
Trichloroethylene (ug/L) - TW	2012/01/10	< 0.44	5	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2012/01/10	< 0.25	5	No	No
2,4,5-Trichlorophenoxy acetic acid (ug/L) - TW	2012/01/10	< 0.22	280	No	No
Trifluralin (ug/L) - TW	2012/01/10	< 0.020	45	No	No
Vinyl Chloride (ug/L) - TW	2012/01/10	< 0.17	2	No	No

Maintenance Summary

OCWA uses a risk-based preventative maintenance framework that ensures assets are maintained to manufacturer's and/or industry standards. Maintenance is completed using various tools and operational supports. The Ottawa Valley Hub has specialized certified staff such as Millwrights, Electricians and Instrumentation Specialists to name a few.

OCWA uses a Workplace Maintenance System (WMS). WMS is a maintenance tracking system that can generate work orders as well as give summaries of completed and scheduled work. During the year, the operating authority at the facility generates scheduled work orders on a weekly, monthly and annual basis. The service work is recorded in the work order history. This ensures routine and preventive maintenance is carried out. Emergency and capital repair maintenance is completed and added to the system.

Capital projects are listed and provided to the Township of Killaloe, Hagarty & Richards in the form of a "Capital Forecast". This list is developed by facility staff and provides recommendations for facility components requiring upgrading or improvement.

Preventative Maintenance Work Orders Completed	179
Operational Maintenance Work Orders Completed	28
Weekly Maintenance Work Orders Completed	340

Maintenance Highlights

WO#	Details
2595947	Annual calibration of intensity sensor by H2Flow
2700009	Replaced all piping in the production well with Certa-Lok piping
2558650	Replace spare Jockey pump
2690821	Replace diesel tank at Plant to meet code. Completed by Whitfields Plumbing and Heating.

QEMS

The Ontario Clean Water Agency has received Limited scope accreditation from the Canadian General Standards Board (CGSB). During 2012 there were changes to the accreditation body. The Ministry of Environment terminated their contract with CGSB as the accrediting body. OCWA has procured QMI to be our third party auditors.

There were no external audits in 2012.

Water Taking and Transfer Data

2012 Data was submitted electronically on January 18, 2013 under permit #6713-62X4ER. The WTRS data and submission confirmation are attached in Appendix B.

Appendix A

Annual Record of Water Taking Report

Personal information contained on this form is collected under the authority of the Ontario Water Resources Act, Section 20. The Purpose of the form is to record details and information about the taking of water annually. Questions should be directed to the respective hub office in your area.

Les renseignements personnels qui figurent dans le présent formulaire sont recueillis en vertu de l'article 20 de la Loi sur les ressources en eau de l'Ontario. Ce formulaire sert à dossiers les détails et les renseignements concernant la prise d'eau annuelle. Prière d'adresser toutes questions au personnel du bureau régional de votre secteur.

Year(Année): 2012 Permit No.(N° de permis): 6713-62X4ER Source: Well Water
 Location: RW - Raw Water

Name of Permittee: Mailing Address:
Nom du titulaire du permis Adresse postale

Location Of Taking: Twp. or Municipality: Concession: Lot:
Lieu de la prise d'eau Canton ou municipalité
 Township of Killaloe Hagarty and Richards

	Jan/2012	Feb/2012	Mar/2012	Apr/2012	May/2012	Jun/2012	Jul/2012	Aug/2012	Sep/2012	Oct/2012	Nov/2012	Dec/2012	<-- Total -->	<-- Avg. -->	<-- Max. -->	<-- Criteria-->
Total Hrs of Taking	131.1	96.4	107.9	127.3	108.4	119.4	186.1	117.5	102.0	143.7	106.8	102.4	1,449.0	120.75		
Avg Daily Rate of Taking(L/sec)	6.24	6.25	6.3	6.34	6.34	6.36	6.34	6.23	6.3	6.33	6.38	6.41		6.32		
Total Amt of Taking(m3)	2,970.0	2,188.0	2,460.0	2,936.0	2,512.0	2,746.0	4,285.0	2,641.0	2,319.0	3,298.0	2,464.0	2,354.0	33,173.0			
Avg Monthly Taking(m3/day)	95.81	75.45	79.35	97.87	81.03	91.53	138.23	85.19	77.3	106.39	82.13	75.94		90.52		
Max Daily Flow(m3)	405.0	143.0	214.0	441.0	141.0	147.0	390.0	132.0	144.0	402.0	232.0	230.0			441.0	601.92
Peak Daily Rate of Taking(L/sec)	6.5	6.6	6.6	6.6	6.7	6.8	6.9	6.9	6.8	6.7	6.9	6.9			6.9	6.9
Peak Daily Rate of Taking(L/min)	390.0	396.0	396.0	396.0	402.0	408.0	414.0	414.0	408.0	402.0	414.0	414.0			414.0	418.0

Appendix B

WTRS Data and Submission Confirmation

Annual Water Taking Report

For the Year 2012

Raw Flow: Sum (m3/d)

Municipality: Village of Killaloe	Year: 2012
Facility Name: [6069] - Killaloe Water Treatment Plant	Water Source: Well Water
Works: [220006026] - Killaloe Water Treatment Plant	Total Design Capacity (m3/day): 602.00
Classification: Class 1 Water Distribution, Class 2 Water Treatment	Population Served: 656

January	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	72.000	72.000	41.000	54.000	54.000	76.000	76.000	76.000	94.000	187.000	187.000	187.000	70.000	70.000	70.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	405.000	94.000	94.000	94.000	67.000	67.000	67.000	122.000	66.000	66.000	66.000	68.000	68.000	68.000	109.000	63.000
February	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	63.000	63.000	69.000	69.000	69.000	133.000	62.000	62.000	62.000	72.000	72.000	72.000	112.000	69.000	69.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	69.000	79.000	79.000	79.000	79.000	34.000	84.000	84.000	72.000	72.000	72.000	143.000	62.000	62.000		

Annual Water Taking Report For the Year 2012

March	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	62.000	74.000	74.000	74.000	100.000	62.000	62.000	62.000	73.000	73.000	73.000	88.000	58.000	58.000	58.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	69.000	69.000	69.000	117.000	59.000	59.000	59.000	67.000	67.000	67.000	114.000	55.000	55.000	55.000	214.000	214.000
April	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	214.000	441.000	122.000	122.000	64.000	64.000	64.000	64.000	64.000	50.000	75.000	75.000	69.000	69.000	69.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	130.000	84.000	84.000	84.000	85.000	85.000	85.000	112.000	93.000	93.000	93.000	74.000	74.000	74.000	60.000	
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	70.000	70.000	70.000	68.000	68.000	68.000	141.000	69.000	69.000	69.000	80.000	80.000	80.000	107.000	91.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	91.000	91.000	86.000	86.000	86.000	86.000	108.000	47.000	101.000	60.000	60.000	60.000	128.000	74.000	74.000	74.000
June	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	74.000	74.000	74.000	76.000	73.000	73.000	73.000	56.000	56.000	56.000	143.000	65.000	65.000	65.000	110.000	

Annual Water Taking Report

For the Year 2012

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	110.000	110.000	129.000	85.000	85.000	85.000	103.000	103.000	103.000	147.000	107.000	107.000	107.000	116.000	116.000	
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	116.000	116.000	118.000	168.000	168.000	126.000	126.000	126.000	390.000	242.000	242.000	242.000	122.000	122.000	122.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	134.000	109.000	109.000	109.000	137.000	137.000	137.000	140.000	88.000	88.000	88.000	109.000	109.000	109.000	58.000	78.000
August	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	78.000	78.000	68.000	68.000	68.000	68.000	132.000	72.000	72.000	95.000	95.000	95.000	93.000	91.000	91.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	91.000	99.000	99.000	99.000	63.000	71.000	71.000	71.000	92.000	92.000	92.000	109.000	81.000	81.000	81.000	85.000
September	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	85.000	85.000	85.000	99.000	71.000	71.000	75.000	75.000	75.000	144.000	72.000	72.000	72.000	66.000	66.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	66.000	78.000	71.000	71.000	71.000	78.000	78.000	78.000	107.000	72.000	72.000	72.000	64.000	64.000	64.000	

Annual Water Taking Report For the Year 2012

October	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	173.000	54.000	54.000	54.000	69.000	69.000	69.000	69.000	402.000	225.000	225.000	68.000	68.000	68.000	69.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	50.000	50.000	50.000	66.000	66.000	66.000	74.000	245.000	245.000	245.000	57.000	57.000	57.000	110.000	62.000	62.000
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	62.000	67.000	67.000	67.000	77.000	49.000	49.000	49.000	50.000	50.000	50.000	50.000	131.000	51.000	51.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	64.000	64.000	64.000	73.000	52.000	52.000	52.000	64.000	64.000	64.000	76.000	232.000	232.000	232.000	159.000	
December	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
RW - Raw Water	159.000	159.000	145.000	170.000	48.000	48.000	60.000	60.000	60.000	60.000	60.000	42.000	42.000	42.000	42.000	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
RW - Raw Water	42.000	165.000	71.000	71.000	71.000	69.000	69.000	69.000	57.000	57.000	57.000	230.000	12.000	12.000	12.000	93.000



Location: WTRS / WT DATA / Input WT Record

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

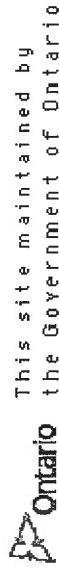
Thank you for submitting your water taking data online.

Permit Number: 6713-62X4ER
Permit Holder: TOWNSHIP OF KILLALOE, HAGARTY, RICHARDS.
Received on: Jan 18, 2013 1:52 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Return to Main Page](#)

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