



MEMO

Phone: 519-856-9596 ext. 125
Fax: 519-856-2240
Email: aknight@get.on.ca

TO: Donna Button, Compliance Admin./QMS Rep.
FROM: Amanda Knight, Deputy Clerk
DATE: March 19, 2013
RE: Compliance Report 13-02 re: Guelph/Eramosa Township Drinking Water System Report

At the Regular meeting of Council held on March 18, 2013 the following resolution was put forward and passed:

Be it resolved that the Council of the Township of Guelph/Eramosa has received the Public Work's Report 13-02 regarding the Ontario Regulation 170/03 Annual and Summary Reports and the Drinking Water Quality Management System Reports to the Owner for 2012; and

That Council accepts this report as it relates to the Hamilton Drive Water Supply System, the Rockwood Water Supply System and the Gazer Mooney Distribution System for the period from January 1st 2012 to December 31st 2012; and

That Council accepts the Drinking Water Quality Management System Report as it relates to the Hamilton Drive Water Supply System, the Rockwood Water Supply System and the Gazer Mooney Distribution System for the period from January 2012 to December 31, 2012.

Please accept this for your information and any necessary action.

Yours truly,



Amanda Knight
Deputy Clerk

c.c. R. McClure, Acting Manager of Public Works

**PUBLIC WORK'S REPORT
REPORT 13-02**

TO: Mayor and Members of Council
FROM: Donna Button, Compliance Admin., Public Works Department
MEETING DATE: Monday, March 18, 2013
SUBJECT: Guelph/Eramosa Township Drinking Water System Report

RECOMMENDATION:

Be it resolved that the Council of the Township of Guelph/Eramosa has received the Public Work's Report 13-02 regarding the Ontario Regulation 170/03 Annual and Summary Reports and the Drinking Water Quality Management System Report to the Owner for 2012 and;

That Council accepts this report as it relates to the Hamilton Drive Water Supply System, the Rockwood Water Supply System and the Gazer Mooney Distribution System for the period from January 1st 2012 to December 31st 2012 and;

That Council accepts the Drinking Water Quality Management System Report as it relates to the Hamilton Drive Water Supply System, the Rockwood Water Supply System and the Gazer Mooney Distribution System for the period from January 2012 to December 31, 2012

BACKGROUND:

In conformance with Quality Management System 12-2 Reporting to Owner, information shall be communicated to the Owner in a timely fashion by Top Management in order to comply with section 19 of the Safe Drinking Water Act, 2002: Standard of Care, and conformance with the municipal drinking water system.

ATTACHMENTS

APPENDIX "A" Ontario Regulation 170/03 Annual and Summary Report

Adverse test results and related corrective actions for the period January 1 to December 31, 2012

APPENDIX "B" Quality Management System Report to the Owner to satisfy the requirements of section 20 of the Drinking Water Quality Management Standard for the period January 1 to December 31, 2012.

APPENDIX "C" Gazer Mooney Subdivision January 1, to December 31, 2012

APPENDIX "D" Legal and Other Requirements Update

APPENDIX "A"

O. Reg. 170 Section 11 Annual Report - Rockwood

Drinking-Water System Number:	220005599
Drinking-Water System Name:	Rockwood Water Supply System
Drinking-Water System Owner:	The Corporation of the Township of Guelph Eramosa
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2012 – December 31, 2012

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet?

Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

The Corporation of the Township of
Guelph Eramosa
PO Box 700
8348 Wellington Road, 124
Rockwood ON

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Number of Interested Authorities you report to:

N/A

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes [] No []

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [] No [] Not Applicable [X]

Indicate how you notified system users that your annual report is available, and is free of charge.

[X] Public access/notice via the web

[X] Public access/notice via Government Office

[] Public access/notice via a newspaper

[X] Public access/notice via Public Request

[] Public access/notice via a Public Library

[X] Public access/notice via other method Notice via Township Website

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A	N/A	N/A	N/A	N/A	N/A

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	# of Samples	E.Coli (min – max)	Total Coliform (min – max)	# of HPC Samples	HPC (min – max)
Raw	152	0-0	0-0	N/A	N/A
Treated	106	0-0	0-0	106	0-30
Distribution	212	0-0	0-0	212	0-72

Operational testing done under Schedule 8 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min #)-(max #)
Raw Water		
Turbidity (Station Street; Well 1-67)	21	0.11-0.38 NTU's
Turbidity (Station Street; Well 1-76)	19	0.00-0.33 NTU's
Turbidity (Bernardi)	21	0.07-0.33 NTU's
Treated Water		
Free Chlorine Residual (Station St)	8760	0.50-1.98 mg/L
Free Chlorine Residual (Bernardi)	8760	0.03-2.01 mg/L
Distribution System		
Free Chlorine Residual	2543	0.11-3.03 mg/L

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date Legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

Summary of Inorganic parameters tested during this reporting period or the most recent sample results.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
BERNARDI				
Antimony	Jan.06/10	< 0.5	ug/l	No
Arsenic	Jan.06/10	< 1	ug/l	No
Barium	Jan.06/10	40	ug/l	No
Boron	Jan.06/10	< 10	ug/l	No
Cadmium	Jan.06/10	< 0.1	ug/l	No
Chromium	Jan.06/10	< 5	ug/l	No
Lead (Distribution)	Jan. 03/12	<0.5	ug/l	No
Mercury	Jan.06/10	< 0.1	ug/l	No

Summary of Organic parameters sampled during this reporting period or the most recent sample results (Treated except where noted)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
BERNARDI				
Alachlor	Jan. 06/10	< 0.1	ug/l	No
Aldicarb	Jan. 06/10	< 0.2	ug/l	No
Aldrin + dieldrin	Jan. 06/10	< 0.5	ug/l	No
Atrazine + N-dealkylated metabolites	Jan. 06/10	< 1	ug/l	No
Azinophos-methyl	Jan. 06/10	< 0.5	ug/l	No
Bendiocarb	Jan. 06/10	< 1	ug/l	No
Benzene	Jan. 06/10	< 0.5	ug/l	No
Benzo[a]pyrene	Jan. 06/10	< 0.5	ug/l	No
Bromoxynil	Jan. 06/10	< 5	ug/l	No
Carbaryl	Jan. 06/10	< 0.01	ug/l	No
Carbofuran	Jan. 06/10	< 1	ug/l	No
Carbon tetrachloride	Jan. 06/10	< 2	ug/l	No
Chlordane	Jan. 06/10	< 2	ug/l	No
Chlorpyrifos	Jan. 06/10	< 0.1	ug/l	No
Cyanazine	Jan. 06/10	< 0.009	ug/l	No
1,1-Dichloroethylene	Jan. 06/10	< 0.5	ug/l	No
1,2-Dichloroethane	Jan. 06/10	< 5	ug/l	No
2,4-D	Jan. 06/10	< 5	ug/l	No
2,4-Dichlorophenol	Jan. 06/10	< 0.1	ug/l	No
DDT + metabolites	Jan. 06/10	< 0.01	ug/l	No
Diazinon	Jan. 06/10	< 1	ug/l	No
Dicamba	Jan. 06/10	< 1	ug/l	No
Dichloromethane	Jan. 06/10	< 0.02	ug/l	No
Diclofop-methyl	Jan. 06/10	< 1	ug/l	No
Dimethoate	Jan. 06/10	< 1	ug/l	No
Dinoseb	Jan. 06/10	< 0.5	ug/l	No
Diquat	Jan. 06/10	< 0.9	ug/l	No
Diuron	Jan. 06/10	< 3	ug/l	No
Heptachlor & heptachlor epoxide	Jan. 06/10	< 1	ug/l	No
Lindane	Jan. 06/10	< 7	ug/l	No
Malathion	Jan. 06/10	< 10	ug/l	No
Methoxychlor	Jan. 06/10	< 0.01	ug/l	No
Metolachlor	Jan. 06/10	< 0.006	ug/l	No
Metribuzin	Jan. 06/10	< 5	ug/l	No
Monochlorobenzene	Jan. 06/10	< 0.02	ug/l	No
o-Dichlorobenzene	Jan. 06/10	< 0.5	ug/l	No
Paraquat	Jan. 06/10	< 5	ug/l	No
Parathion	Jan. 06/10	< 0.1	ug/l	No
p-Dichlorobenzene	Jan. 06/10	< 0.2	ug/l	No
Pentachlorophenol / PCP	Jan. 06/10	< 1	ug/l	No
Phorate	Jan. 06/10	< 1	ug/l	No
Picloram	Jan. 06/10	< 0.2	ug/l	No
Polychlorinated Biphenyls / PCBs	Jan. 06/10	< 0.5	ug/l	No
Prometryn	Jan. 06/10	< 0.5	ug/l	No
Simazine	Jan. 06/10	< 5	ug/l	No
2,3,4,6-Tetrachlorophenol	Jan. 06/10	< 0.05	ug/l	No

Annual Drinking Water Report

Dimethoate	Jan. 03/12	< 3	ug/l	No
Dinoseb	Jan. 03/12	< 1	ug/l	No
Diquat	Jan. 03/12	< 7	ug/l	No
Diuron	Jan. 03/12	< 10	ug/l	No
Heptachlor & heptachlor epoxide	Jan. 03/12	< 0.01	ug/l	No
Lindane	Jan. 03/12	< 0.006	ug/l	No
Malathion	Jan. 03/12	< 5	ug/l	No
Methoxychlor	Jan. 03/12	< 0.02	ug/l	No
Metolachlor	Jan. 03/12	< 0.5	ug/l	No
Metribuzin	Jan. 03/12	< 5	ug/l	No
Monochlorobenzene	Jan. 03/12	< 0.1	ug/l	No
o-Dichlorobenzene	Jan. 03/12	< 0.2	ug/l	No
Paraquat	Jan. 03/12	< 1	ug/l	No
Parathion	Jan. 03/12	< 1	ug/l	No
p-Dichlorobenzene	Jan. 03/12	< 0.2	ug/l	No
Pentachlorophenol / PCP	Jan. 03/12	< 0.5	ug/l	No
Phorate	Jan. 03/12	< 0.5	ug/l	No
Picloram	Jan. 03/12	< 5	ug/l	No
Polychlorinated Biphenyls / PCBs	Jan. 03/12	< 0.05	ug/l	No
Prometryn	Jan. 03/12	< 0.3	ug/l	No
Simazine	Jan. 03/12	< 1	ug/l	No
2,3,4,6-Tetrachlorophenol	Jan. 03/12	< 0.5	ug/l	No
2,4,5-T	Jan. 03/12	< 1	ug/l	No
2,4,6-Trichlorophenol	Jan. 03/12	< 0.5	ug/l	No
Temephos	Jan. 03/12	< 10	ug/l	No
Terbufos	Jan. 03/12	< 0.5	ug/l	No
Tetrachloroethylene	Jan. 03/12	< 0.1	ug/l	No
Triallate	Jan. 03/12	< 1	ug/l	No
Trichloroethylene	Jan. 03/12	< 0.1	ug/l	No
Trifluralin	Jan. 03/12	< 1	ug/l	No
Vinyl chloride	Jan. 03/12	< 0.2	ug/l	No
Trihalomethanes (THMS) (Distribution) Expressed as annual average	Jan 03/12 Apr 10/12 Jul 03/12 Oct 01/12	0.0192	mg/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Sodium	92	mg/L	Jan. 03/12

Annual Drinking Water Report

JUNE	365.30	18.59	1170.00	59.54	1059.24	77.77
JULY	449.46	22.87	1474.00	75.01	1054.26	77.41
AUGUST	311.69	15.86	693.00	35.27	1073.10	78.79
SEPTEMBER	602.10	30.64	993.00	50.53	1051.26	77.19
OCTOBER	555.38	28.26	1069.00	54.40	1050.00	77.09
NOVEMBER	289.53	14.73	960.00	48.85	1050.00	77.09
DECEMBER	312.04	15.88	863.00	43.92	1050.00	77.09

Summary of Raw Water Flows - Station Street Pumphouse

Well TW# 1- 76 (Rated Capacity 1,964 m³/day) (Rated Daily Peak 1,360 L/min)

MONTH	Avg. Daily Volume m ³	% Of Approved Volume	MAX Daily Volume m ³ /d	% Of Approved Volume	Peak Flow Rate L/min	% Of Approved Flow Rate
JANUARY	397.69	20.24	1065.00	54.20	1054.26	77.41
FEBRUARY	369.86	18.82	988.00	50.28	1050.00	77.09
MARCH	336.97	17.15	719.00	36.59	1056.00	77.53
APRIL	427.30	21.75	977.00	49.72	1051.98	77.24
MAY	455.36	23.17	1182.00	60.15	1053.78	77.37
JUNE	508.04	25.85	1197.00	60.92	1060.92	77.89
JULY	657.07	33.44	1250.00	63.61	1050.00	77.09
AUGUST	424.70	21.61	1229.00	62.54	1050.00	77.09
SEPTEMBER	261.33	13.30	871.00	44.33	1080.00	79.30
OCTOBER		0.00		0.00	0.00	0.00
NOVEMBER	344.63	17.54	984.00	50.08	1080.00	79.30
DECEMBER	296.50	15.09	670.00	34.10	1072.50	78.74

Summary of Raw Water Flows – Bernardi Pumphouse

Well # 3 (Rated Capacity 1,310 m³/day) (Rated Daily Peak 910.0 L/min)

MONTH	Avg. Daily Volume m ³	% Of Approved Volume	MAX Daily Volume m ³ /d	% Of Approved Volume	Peak Flow Rate L/min	% Of Approved Flow Rate
JANUARY	467.57	35.69	1064.00	81.22	680.76	75.14
FEBRUARY	372.04	28.40	1093.90	83.50	711.18	78.50
MARCH	288.87	22.05	1280.10	97.72	714.00	78.81
APRIL	270.59	20.66	902.10	68.86	617.64	68.17
MAY	316.39	24.15	690.60	52.72	325.14	35.89
JUNE	307.10	23.44	862.30	65.82	583.32	64.38
JULY	375.46	28.66	760.20	58.03	615.00	67.88
AUGUST	318.37	24.30	877.50	66.98	610.74	67.41
SEPTEMBER	301.04	22.98	926.80	70.75	960.00	105.96
OCTOBER	330.97	25.26	848.00	64.73	717.42	79.19
NOVEMBER	298.23	22.77	887.30	67.73	728.82	80.44
DECEMBER	412.27	31.47	1061.50	81.03	718.32	79.28

- ☒ Public access/notice via the web
☒ Public access/notice via Government Office
☐ Public access/notice via a newspaper
☒ Public access/notice via Public Request
☐ Public access/notice via a Public Library
☒ Public access/notice via other method Notice given via water or tax bills

Describe your Drinking-Water System

The Hamilton Drive Water Supply System is located in the Township of Guelph-Eramosa. A residential development obtains its entire water supply from two groundwater wells (Huntington and Cross Creek) each with its own Pump House and grade-level reservoir.

The raw water from each well is chlorinated to protect against microbial contaminants prior to discharge into the reservoir. The raw water is disinfected with a sodium hypochlorite solution (chlorine) for primary and secondary disinfection requirements. The water level in the reservoir starts and stops the well pumps.

The treated water is pumped with high-lift pumps at each station through the distribution system which consists of approximately 21 kilometers of water main. The high lift pumps operate based on the water level in the standpipe. Once the low water level in the standpipe is reached, the pump stations are called upon to operate in sequence and supply the distribution system and any excess water fills the standpipe to the high water level. This system is a demand/storage system; once the standpipe is full, the high lift pumps shut down until the water level drops in the tower and the pumps are required again.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite (12% solution) - disinfection

Were any significant expenses incurred to?

- ☒ Install required equipment
☒ Repair required equipment
☒ Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Install	Service	Repair	Replace	Description
			x	Cross Creek Pump House –well pump, motor, new riser pipe replaced
	x			Cross Creek Pump House - video inspection and step test performed
	x			Huntington Pump House – step test performed
	x	x		Cross Creek Pump House – high lift pump cla-val servicing and repair
	x	x		Huntington Pump House – high lift pump cla-val servicing and repair
x				Hamilton Drive Standpipe – SCADA upgrades continued

Total incurred: \$ 33,576.61

Annual Drinking Water Report

Uranium	Jan 18/10	<0.1	ug/l	No
Fluoride	Sept 04/08	0.18	mg/l	No
Nitrite	Jan 03/12	< 0.01	mg/l	No
	Apr 10/12	< 0.010		
	Jul 03/12	< 0.010		
	Oct 01/12	< 0.010		
Nitrate	Jan 03/12	< 0.1	mg/l	No
	Apr 10/12	< 0.10		
	Jul 03/12	< 0.10		
	Oct 01/12	< 0.10		

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
CROSS CREEK				
Antimony	Jan 18/10	<0.5	ug/l	No
Arsenic	Jan 18/10	<1.0	ug/l	No
Barium	Jan 18/10	37.0	ug/l	No
Boron	Jan 18/10	29.0	ug/l	No
Cadmium	Jan 18/10	<0.1	ug/l	No
Chromium	Jan 18/10	<5.0	ug/l	No
Lead Distribution	Jan 10/11	<0.5	ug/l	No
Mercury	Jan 18/10	<0.01	ug/l	No
Selenium	Jan 18/10	<2.0	ug/l	No
Sodium	Jan 18/10	10000	mg/l	No
Uranium	Jan 18/10	<0.1	ug/l	No
Fluoride	Sept 04/08	0.17	mg/l	No
Nitrite	Jan 03/12	< 0.01	mg/l	No
	Apr 10/12	< 0.010		
	Jul 03/12	< 0.010		
	Oct 01/12	< 0.010		
Nitrate	Jan 03/12	< 0.1	mg/l	No
	Apr 10/12	< 0.10		
	Jul 03/12	< 0.10		
	Oct 01/12	< 0.10		

Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #) ug/L	Number of Exceedances
Plumbing	Exempt	No history of exceedance	n/a
Distribution	pH and alkalinity		n/a

Annual Drinking Water Report

PCBs				
Prometryn	Jan 10/10	< 0.3	ug/l	No
Simazine	Jan 10/10	< 1	ug/l	No
2,3,4,6-Tetrachlorophenol	Jan 10/10	< 0.5	ug/l	No
2,4,5-T	Jan 10/10	< 1	ug/l	No
2,4,6-Trichlorophenol	Jan 10/10	< 0.5	ug/l	No
Temephos	Jan 10/10	< 10	ug/l	No
Terbufos	Jan 10/10	< 0.5	ug/l	No
Tetrachloroethylene	Jan 10/10	< 0.1	ug/l	No
Triallate	Jan 10/10	< 1	ug/l	No
Trichloroethylene	Jan 10/10	< 0.1	ug/l	No
Trifluralin	Jan 10/10	< 1	ug/l	No
Vinyl chloride	Jan 10/10	< 0.2	ug/l	No
Trihalomethanes (THMS) (Distribution) Expressed as annual average	Jan 03/12 Apr 10/12 Jul 03/12 Oct 01/12	0.01501	mg/L	No

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
CROSS CREEK				
Alachlor	Jan 10/10	< 0.5	ug/l	No
Aldicarb	Jan 10/10	< 5	ug/l	No
Aldrin + dieldrin	Jan 10/10	< 0.01	ug/l	No
Atrazine + N-dealkylated metabolites	Jan 10/10	< 1	ug/l	No
Azinophos-methyl	Jan 10/10	< 2	ug/l	No
Bendiocarb	Jan 10/10	< 2	ug/l	No
Benzene	Jan 10/10	< 0.1	ug/l	No
Benzo[a]pyrene	Jan 10/10	< 0.009	ug/l	No
Bromoxynil	Jan 10/10	< 0.5	ug/l	No
Carbaryl	Jan 10/10	< 5	ug/l	No
Carbofuran	Jan 10/10	< 5	ug/l	No
Carbon tetrachloride	Jan 10/10	< 0.1	ug/l	No
Chlordane	Jan 10/10	< 0.01	ug/l	No
Chlorpyrifos	Jan 10/10	< 1	ug/l	No
Cyanazine	Jan 10/10	< 1	ug/l	No
1,1-Dichloroethylene	Jan 10/10	< 0.1	ug/l	No
1,2-Dichloroethane	Jan 10/10	< 0.2	ug/l	No
2,4-D	Jan 10/10	< 1	ug/l	No
2,4-Dichlorophenol	Jan 10/10	< 0.5	ug/l	No
DDT + metabolites	Jan 10/10	< 0.02	ug/l	No
Diazinon	Jan 10/10	< 1	ug/l	No
Dicamba	Jan 10/10	< 1	ug/l	No

APPENDIX "A"**O. REG 170 SCHEDULE 22 SUMMARY REPORT – HAMILTON DRIVE****SUMMARY**

This report is a summary of water quality and quantity information submitted in accordance with schedule 22 of Ontario's Drinking Water System regulation for the reporting period of January 01, 2012 to December 31, 2012 for the Hamilton Drive Water Supply System, located in the Township of Guelph/Eramosa.

The summary includes:

1. Any requirements of the Act and Regulation, System Approval (s), Drinking Water Works Permit, Municipal Drinking Water Licence and any Orders that the system failed to meet during the reporting period and the measures taken to correct each failure.
2. A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
3. A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

ISSUES OF NON-COMPLIANCE

The Ministry of the Environment began a focused system inspection on February 19, 2013 for the period of August 31, 2011 to February 15, 2013.

Schedule 22 of Ontario Regulation 170/03 requires a report to Owner/Council be made by March 31st of each year. Inspection results were not completed in time for presentation to Owner/Council on the March 18th therefore inspection results must be presented to Owner/Council at a later date.

Requirement	Non-Compliance	Action Required
Unavailable		

ASSESSMENT OF FLOW RATES AND QUANTITIES OF WATER SUPPLIED

The following table lists the quantities and flow rates of the water supplied during the reporting period covered by this report, including monthly average and maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval:

Summary of Raw Water Flows - Cross Creek

Well # 1

(Rated Capacity 812 m³/24 hours)

Rated Daily Peak 725 L/min)

MONTH	Avg. Daily Volume m ³	% Of Approved Volume	MAX Daily Volume m ³ /d	% Of Approved Volume	Peak Flow Rate L/min	% Of Approved Flow Rate
JANUARY	77.03	9.49	186.60	22.98	304.26	41.98
FEBRUARY	89.91	11.07	160.30	19.74	287.16	39.62
MARCH	83.29	10.26	153.70	18.93	264.00	36.42
APRIL	83.53	10.29	158.80	19.56	258.84	35.71

APPENDIX "B"**QUALITY MANAGEMENT SYSTEM REPORT TO THE OWNER**

The following is presented in response to the requirement of section 20 of the Drinking Water Quality Management Standard that requires Guelph/Eramosa Water/Wastewater Department to report the results of management review, the identified deficiencies, decisions and action items to the Owner.

2012 MANAGEMENT REVIEW

The 'DO' component of the Management Review element of the DWQMS Standard requires that Top Management participate in a management review of the DWQMS at least once per year and as an output of the meeting:

- Consider the results of the management review and identify deficiencies and action items to address deficiencies
- Provide record of decisions and actions items related to management review action items including responsibilities and timelines,
- Report the results of the management review to the Owner.

The Management review was conducted on May 31, 2012. In attendance were all of the Management Review participants listed within 20.2 of the G.E.T. Operational Plan.

RESULTS OF MANAGEMENT REVIEW	REPORT
------------------------------	--------

QMS 20**Summary of Management Review**

- a.) Incidents of regulatory non-compliance.
- b.) Incidents of adverse drinking-water tests.
- c.) Deviations from critical control point limits and response actions.
- d.) The efficacy of the risk assessment process.
- e.) Internal and third-party audit results.
- f.) Results of emergency response testing.
- g.) Operational performance.
- h.) Raw water supply and drinking water quality trends.
- i.) Follow-up on action items from previous management reviews.
- j.) The status of management action items identified between reviews.
- k.) Changes that could affect the QMS.
- l.) Consumer feedback.
- m.) The resources needed to maintain the QMS.
- n.) The results of the infrastructure review.
- o.) Operational Plan currency, content and updates.
- p.) Staff suggestions.

The detailed results have been reviewed by Top Management in accordance with the DWQMS management review system procedure.

per the required timeline of every thirty-six months.

- Ownership of the Gazer Mooney Distribution System has been revised to show the Guelph/Eramosa Township.

Operations and Maintenance Manuals

- Revised to reference the Drinking Water Works Permit and License (DWWP/DWWL) not the Certificates of Approval which are obsolete.

QMS 9- Organizational Structure, Roles, Responsibilities and Authorities

- Reference has now been made to reflect the Operating Authority of the Gazer Mooney Distribution System in body description and the organizational structure,
- Management / team members involved in the Management Review have been documented.

QMS 11- Personal Coverage

- Autodialer information has been updated and confirmed by the Operations Supervisor.

QMS 14- Review and Provision of Infrastructure

- A check list of records used in preparing the Infrastructure Report have been listed within the Template for operators to initial once they have reviewed each document.

QMS 18- Emergency Management

- Owner/Council responsibilities shall be documented with 4.0 of the EMS Plan Binder to reflect the actual.
- Debriefing sessions following any emergency have been implemented to discuss what processes worked well and which require change.

Infrastructure Review

The Operating Authority (G.E.T. Water Dept.) must ensure and verify, on an annual basis, the adequacy of water related infrastructure. According to the DWQMS Standard, infrastructure is adequate if it is: available, maintained, and improved when necessary. In order to satisfy the requirements of the DWQMS Standard, the Operating Authority conducted an annual review of its water treatment, pumping, storage and watermain infrastructure. The scope of the review also considered the operation, maintenance and replacement of existing infrastructure assets as well as new infrastructure planned for the immediate and long-term future.

The evaluation of program indicates that appropriate processes are in place to identify infrastructure needs. The program may be communicated verbally identifying needs on an on-going basis (e.g. maintenance inspections) or periodic (e.g. site specific risk assessments). Based on the information collected, needs are assessed, prioritized and communicated to the owner through the annual budget process.

APPENDIX "C"**GAZER MOONEY DISTRIBUTION SYSTEM**

The City of Guelph's Water Services Summary Report not only satisfies the O.Reg. 70/03 Section 11 and Schedule 22 requirements for the Gazer Mooney Subdivision Distribution System and includes conformance with its QMS 12-02 Reporting to Owner policy.

Since the Gazer Mooney Distribution System makes up less than ¼ of a percent of the Guelph System, Management thought it would be beneficial to highlight certain aspects of the report concerning Gazer Mooney. The full report is available for viewing at the Township Office.

Bacteriological Samples:

- There were no adverse Bacteriological samples in the Gazer Mooney distribution systems.

Distribution System Process Parameters:

- Daily samples were taken for chlorine residuals and there were no health exceedence in the Gazer Mooney distribution systems.

Miscellaneous Water Quality Result:

- There were no health exceedences for lead, trihalomethanes or sodium in the Gazer Mooney distribution systems.

Adverse Test Results and Corrective Action:

- There were no adverse test results in the Gazer Mooney distribution systems.

Summary of Maintenance:

- Standard hydrant flushing and valve exercising took place during 2011 in the Gazer Mooney Subdivision.

Drinking Water Quality Management System Report to Owner:

- The 2012 Report to Owner has satisfied the requirements for the Gazer/Mooney Subdivision Distribution System. To view copies of these reports please contact the Quality Management Representative for the Township or view via link from our website @ www.get.on.ca

✓ **Note:** The Gazer Mooney Distribution System (DWS # 260057967) was inspected by the MOE June of 2012. The Inspection Report 1-9Z650. There were no non-compliance issues. The MOE Inspection Summary Rating Record for the system was 100%.

Date 2012	Source of Posting / Reference	Title of Legal & Other Requirement Highlights of posting	Action and Status Update
Aug. 23	Drinking Water Ontario News	Source protection committees have reached a major milestone in a five- year planning process that began in 2007. 15 of 19 committees have now completed their plans to protect municipal sources of drinking water. The remaining four committees have been granted extensions, and are working hard to complete their plans. This is a significant achievement in which Ontarians should be proud. The plans will now undergo review and approval by the Ministry of the Environment. Source protection planning is the first step in Ontario's world-class <u>multi-barrier approach to ensure safe drinking water</u> .	No action required.
Nov. 8	Environmental Registry	Stewardship – Leadership – Accountability. Managing Ontario's Water Resources for Future Generations. The Great Lakes-St. Lawrence River Basin Sustainable Water Resources Agreement (Agreement) was created to protect and conserve the shared waters of the Great Lakes and St. Lawrence River Basin. Ontario is adopting the Basin-wide water conservation goals and objectives. References Water Opportunities and Water Conservation Act, 2010.	No action required.
Dec. 3	Provided by Email from MOE Residual Chlorine Analyzers Technical Bulletin	Residual Chlorine Analyzers Technical Bulletin – The new bulletin is applicable to regulated Ontario municipal residential large and small drinking water systems that provide chlorination for primary and secondary disinfection, and for systems using chloramination for secondary disinfection. This technical bulletin clarifies the regulatory requirements of residual chlorine analyzers installed at various locations of municipal residential drinking water systems in Ontario.	Copied bulletin and provided to Water Operators. Since this is a clarification document, no action is required.
Dec. 6	Provided by Email from MOE Drinking Water Ontario website.	Issue 3 of the <u>Municipal Drinking Water Licensing Program Bulletin</u> is now available on the Drinking Water Ontario website. This bulletin has been created to communicate program updates to municipal drinking water system owners and operators. In this issue: New Accreditation Bodies, Navigating the Ministry Website, Standard of Care, Agreement with Accredited Operating Authority, Financial Plans, Risk Assessment: Identifying Critical Control Points, Common Questions about the DWQMS, Common Questions about the Licence & DWWP, The Accreditation Cycle.	No further action required.