ARCHIVED

MUNICIPAL WATER QUALITY REPORTS

CRYSLER WATER

2002

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Chesterville Hub
5 Industrial Drive, P.O. Box 460
Chesterville, Ontario K0C 1H0
Tel: (613) 448-3098
Fax: (613) 448-1616
www.ocwa.com

Fax

To MOE MOH

Company

Fax Number 933-7930 800 268-6061

From Dave Markell

Date Aug 29/02

Number of Pages 5 **(including this page)**

Subject Adverse Water Crysler.

As you will notice on the attached sheet. Free Cl$_2$ at the site in question was. 1.3 mg/L. Resampling has been initiated.

Works # 220008649

Ontario Ministry of the Environment / Ministère de l'Environnement

Notice of Drinking Water Analysis and Remedial Actions for Waterworks as Required under Drinking Water Protection Regulation

In accordance with the Drinking Water Protection Regulation, Laboratories and Water Works Owners must immediately provide oral notification to the MOE Spills Action Centre (SAC) at 1-800-268-6060 or 1-416-325-3000 and the local Medical Officer of Health (MOH) of indicators of adverse drinking water quality and exceedances of standards as outlined in the Regulation and remedial actions taken. Further, within 24 hours of the oral notification, the party shall provide written notification on this completed form by Fax to the Spills Action Centre at 1-800-268-6061 or 1-416-325-3011 and the local Medical Officer of Health. Failure to notify these parties in accordance with the Regulation constitutes an offence under the Act. A copy of this form may be acquired through the Ministry of the Environment (MOE) public web site (www.ene.gov.on.ca) or by contacting any MOE office.

PART 1 – NOTIFICATION BY LABORATORY

Indicators of Adverse Water Quality ☒	**Phys/Chem** ☐ Exceeds MAC ☐ Exceeds IMAC	**Radiological** ☐ Exceeds IMAC	**CofA/Order** ☐ Exceeds Limit

ORAL NOTIFICATION to SPILLS ACTION CENTRE by LABORATORY

Date: AUG 29/02 Time: 11:39, By: MICHAEL ZIBBELL

Laboratory Name: CADUCEON ENV. LAB.	Laboratory Emergency Contact Name MICHAEL ZIBBELL
Address 3378 HOLLY LANE,	Position GENERAL MANAGER
Email address:	Phone # 613-526-0123 Fax # 613-526-0123
Waterworks Name CHRYSLER WELLS	Waterworks Emergency Contact
Works # 220008649	Name BRIAN HENDERSON
Location VILLAGE OF CRYSLER.	Position OPERATOR.
Email Address	Phone # 613 448-3098 Fax # 448-1616
NOTIFICATION OF WATER WORKS OWNER	**NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH**
Person Contacted KIM	Person Contacted IRENE MARCHAND
Position ADMIN ASISST.	Position ADMIN ASST.
Date 29/08/02 Time 11:30	Date 29/08/02 Time 11:24

Laboratory Written Notification Prepared by: (Lab Results must be attached using Part 3 of form) Name (please print) MICHAEL ZIBBELL

Signature [signature] Date 29/08/02

PART 2 - NOTIFICATION BY WATER WORKS OWNER

Indicators of Adverse Water Quality ☒	**Phys/Chem** ☐ Exceeds MAC ☐ Exceeds IMAC	**Radiological** ☐ Exceeds IMAC	**CofA/Order** ☐ Exceeds Limit

☐ *This notification is for operational problems identified at the waterworks; there is no Laboratory notification associated with this report*

SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER	**WATERWORKS EMERGENCY CONTACT**
Date Aug 29/02 Time 11:30	Name Dave Markell
Waterworks Name Crysler	Position Process Tech.
Works # 220008649	Phone # 613-448-3098 Fax # 613-448-1616
Works Person Providing Oral Notification Dave Markell	
MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	**REMEDIAL ACTIONS TAKEN BY OWNER:**
Date Aug 29/02 Time 11:28	Resampling Initiated ☒ Yes ☐ No
Person Contacted Irene Marchand	Increase Chlorine Dose ☐ Yes ☐ No
Position Resp.	Flushing Mains ☐ Yes ☐ No
Phone # 800-267-7120 Fax # 613-933-7930	Other Actions Taken ☐ Yes ☐ No
Works Person Providing Oral Notification Dave Markell	Describe:
Water Works Written Notification Prepared by: Name (please print)	Other information attached ☒
Signature Dave Markell	Date Aug 29/02

For Ministry Use Only: **Occurrence Report #:**

1402-047 (07/00) Page 1 of 2

Ontario Ministry of the Environment / Ministère de l'Environnement

PART 3:

ADVERSE ANALYTICAL RESULTS - For Indicators Listed in SCHEDULE 6 - Drinking Water Protection Regulation

Microbiological Testing

Laboratory Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y) (a.m. / p.m.)	Sample Type / Location	Membrane Filtration Count/100ml			P-A/100ml Presumptive/ Confirmed (if applicable)	HPC/ 1ml	Date of Analysis (M/D/Y)
				Total Coliforms	Back-ground	E.coli/ Fecal C.			
8934-2	#2	26/08/02	WELL #1 TREATED	ABSENT		ABSENT	—	7600	27/08/02

ADVERSE ANALYTICAL RESULTS - For Parameters Listed in SCHEDULE 4 and 5 or in a C of A or Order Drinking Water Protection Regulation

Physical/Chemical/Radiological Testing

Laboratory Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y) (a.m. / p.m.)	Sample Type/ Location	Parameter	Result	Unit	MAC/ IMAC	Date of Analysis (M/D/Y)

Laboratory Results Authorized by: MICHAEL BRAZEAU **Authorization Date:** 29/08/02

For Ministry Use Only: **Occurrence Report #:**

1402-047 (07/00)

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220008934**
Project: Crysler WTP
Date Sampled: August 26, 2002
Date Received: August 27, 2002
Date Printed: August 29, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. Paul Provost Construction
Total Chlorine	mg/L	0.05		1.40	0.90	0.70
Free Chlorine	mg/L	0.05		1.30	0.70	0.60
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		>600	4	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Laboratories

Bacterialogical Sample Submission Form

Municipality	Crysler	Works #	220008649	Report To	Ontario Clean Water Agency
Source	Wells			Address	5 Industrial Drive
Sample Type	Bacti				P.O. Box 460
Date Sampled	26/08/02	Sampler	Bill Michaels		Chesterville, Ontario

Telephone: (613) 448-3098
Fax: (613) 448-1616
Postal Code K0C 1H0

Sample ID	Sample Description	Free CL2	Total CL2	E. Coli	Total Coliform	Background	HPC	Reportable Sample
CRW-01	Well # 1 Raw	—	—	X	X	X		
CRW-02	Well # 1 Treated	1.3	1.4	X	X		X	X
CRW-03	WATER TOWER	.7	.9	X	X		X	X
CRW-04	Paul Proulx Construction	.6	.7	X	X			X

c.c. Township of North Stormont, Fax: (613) 984-2908

HP OfficeJet K Series K80
Personal Printer/Fax/Copier/Scanner

Log for
OCWA
613 448-1616
Aug 29 2002 3:42pm

Last Transaction

Date	Time	Type	Identification	Duration	Pages	Result
Aug 29	3:40pm	Fax Sent	18002686061	1:10	5	OK

HP OfficeJet K Series K80
Personal Printer/Fax/Copier/Scanner

Log for
OCWA
613 448-1616
Aug 29 2002 3:46pm

Last Transaction

Date	Time	Type	Identification	Duration	Pages	Result
Aug 29	3:42pm	Fax Sent	16139337930	3:38	5	OK

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Crysler Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present its First Quarter Report in 2002 on drinking water quality. This report has been prepared in response to legislative changes brought about by "Operation Clean Water", an initiative of Ontario's Ministry of the Environment to ensure high quality drinking water for the residents of Ontario. The new regulations put into law what was formerly the Ontario Drinking Water Objectives (ODWO), and sets requirements for public waterworks with regard to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Further information on the Ontario Drinking Water Regulations can be found on the Ministry of the Environment web site at www.ene.gov.on.ca

Where to contact us for information

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Web site at www.ocwa.com

Client Services Representative: John Kingsbury
Phone : (613) 774-3663
E-mail Address: jkingsbury@ocwa.com

Operations Manager: Blair Henderson
Phone: (613) 448-3098
E-mail Address: bhenderson@ocwa.com

You may also contact the Township of North Stormont directly by contacting Rheal Charbonneau, Clerk-Treasurer, Tel. (613) 984-2821 or e-mail address: norstor@cnwl.igs.net

Free copies of this report are available at the Township office or their website @ www.cnwl.igs.net/~northstormont

INSIDE THIS REPORT

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Introduction

We are proud to report that for the period January to March 2002, your water conformed to the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The Ontario Clean Water Agency (OCWA) is dedicated to maximizing public health and safety through efficient and reliable operation of your water facility and distribution system.

Plant Description and Treatment Processes

Facility Name:	Crysler WTP & Distribution System
Total Design Capacity	1,685 cubic meters/day
Raw Water Source	Groundwater
Disinfection Method	Sodium Hypochlorite
Municipal Location	Municipal Office, 2 Victoria Street, Berwick, Ontario
Service Area	Village of Crysler
Service Population	600

Operational Description:

Raw Water Source: Two drilled wells, one duty and one standby, located on County Road 13 east of the Village of Crysler.

Low Lift Pumps: Two submersible pumps direct the water to a common header which feeds directly into the feeder line, approximately 5 kilometers in length, to the distribution grid and elevated storage tank with a storage capacity of 1,238 cubic meters.

Chemical Injection: Sodium Hypochlorite for disinfection and Hydrofluosilicic Acid for fluoridation are injected into the common header after the well pump discharge. The residuals are continuously monitored.

Distribution System: There are approximately 600 persons supplied with water from the Crylser Water Treatment System.

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Quality Control & Compliance With Provincial Regulations

This plant provides multiple barriers against bacteriological contamination. Bacteriological testing is carried out on raw water, treated water and distribution samples on a regular frequency. On-line analysers for chlorine residuals and turbidity ensure daily monitoring of water leaving the plant. Chlorine levels in the distribution system are also checked on a regular basis. More specialized testing occurs monthly and quarterly and includes Volatile Organics, Inorganics, Pesticides and PCB's.

OCWA uses internal compliance auditing techniques by teams from within the organization. OCWA operates the Crysler Water Treatment Facility in accordance with provincial regulations. Here is how we do it:

- Use of Accredited Labs. Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

- Operation by Licensed Operators. Your water treatment plant is operated and maintained by the Ontario Clean Water Agency's competent and licensed staff. The mandatory licensing program for operators of drinking water facilities is regulated under the *Ontario Water Resources Act (OWRA)* Regulation 435/93. Licensing means that an individual meets the education and experience requirements and has successfully passed the certificate exam.

- Sampling and Analytical requirements. OCWA follows a sampling and analysis schedule required by *OWRA* Regulation 459/00, the Ontario Drinking Water Standards. More information on sampling and analysis including results are available in this report and from your municipal office.

- Adherence to Ministry Guidelines and Procedures. To ensure the protection of the health and operational excellence, the OCWA adheres to the guidelines and procedures developed by the Ministry of the Environment and the Ministry of Health.

Did We Exceed the Standards?

We did not exceed any health related Ontario Drinking Water Standards for this reporting period.

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Definitions & Terms

m^3 - Cubic Meter, $1m^3 = 1000$ litres
TCU - True Colour Units
$CaCO_3$ - Calcium Carbonate
mg - milligram
mg/L - milligrams per litre
ug/L - micrograms per litre
ng/L - nanograms per litre
NTU - Nephelometric Turbidity Units
MAC - Maximum Acceptable Concentration
IMAC - Interim Maximum Acceptable Concentration
Coliform Bacteria - a group of commonly occurring rod shaped bacteria. Their presence in a water sample is indicative of inadequate filtration and/or disinfection.
Fecal Coliform Bacteria - refers to a subgroup of coliform bacteria present in the digestive system of warm blooded animals and humans.
Heterotrophic Plate Count - a method of measuring bacterial content in water samples. Also known as Standard Plate Count.
Organic Parameter - a group of chemical compounds containing carbon.
Inorganic Parameter - a group of chemical compounds not containing carbon.
Raw Water - Surface or ground water available as a source of drinking water that has not received any treatment.

Required Testing

The Ontario Drinking Water Regulations and Certificates of Approval (C of A) set sampling requirements for the plant. All other sampling conforms to the Drinking Water Protection Regulation schedule for sampling and analysis. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases can pick up substances resulting from the presence of animals or from human activity. Your water is extensively tested for the presence of dozens of compounds. The results of all analytical tests are available at your municipal office. The following table lists all compounds analyzed.

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Water Quality Test Results

Microbiological Parameters	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Containment
Total Coliform (counts/100ml)	0	39	0	01/01/02 03/31/02	n/a	no	Indicate possible presence of coliform
Escherichia Coliform (counts/100 ml)	0	39	0	01/01/02 03/31/02	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (count/100 ml)	500	26	3	01/01/02 03/31/02	2-4	no	Indicator of deteriorating water quality if greater than 500
Parameters related to Microbiological Quality	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Containment**
Turbidity (NTU)	1	Continuous	Continuous	01/01/02 03/31/02	0.01-0.20	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	01/01/02 03/31/02	0.60-1.58	no	Chlorine added for Disinfection
Free Chlorine- Distribution (mg/l min 0.05 & max. 4.0)	-	Grab samples weekly	Weekly	01/01/02 03/31/02	0.60-1.80	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)
Inorganic Parameters (mg/l)	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Contaminant**
Lead - Distribution	0.01	1	1	01/21/02	<0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	01/21/02	0.2	no	Natural component of water
Nitrite	1	1	1	01/21/02	<0.1	no	
Arsenic	IMAC= 0.025	1	1	01/21/02	<0.001	no	
Barium	1	1	1	01/21/02	0.08	no	
Boron	IMAC= 5.0	1	1	01/21/02	<0.05	no	
Cadmium	0.005	1	1	01/21/02	<0.0001	no	
Chromium (Total)	0.05	1	1	01/21/02	0.002	no	
Copper	1	1	1	01/21/02	0.037	no	
Iron	0.3	1	1	01/21/02	<0.01	no	
Lead	0.01	1	1	01/21/02	<0.001	no	
Manganese	0.05	1	1	01/21/02	0.01	no	
Mercury	0.001	1	1	01/21/02	<0.0001	no	
Selenium	0.01	1	1	01/21/02	<0.001	no	
Uranium	0.1	1	1	01/21/02	<0.001	no	
Sodium	200	1	1	01/21/02	4	no	
Fluoride	2.4	Continuous	Continuous	Continuous	0.5-0.7	no	

Comments:

Volatile Organics (ug/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Trihalomethanes - Plant	100	1	1	01/21/02	15	no	
Trihalomethanes - Dist.	100	1	1	01/21/02	5.6	no	
Benzene	5	1	1	01/21/02	<0.5	no	
Carbon Tetrachloride	5	1	1	01/21/02	<0.9	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

January - March 2002, Crysler Water Plant - Serving the Village of Crysler

Dichloromethane	50	1	1	01/21/02	<4	no	
1,2 - Dichlorobenzene	200	1	1	01/21/02	<0.4	no	
1, 4 - Dichlorobenzene	5	1	1	01/21/02	<0.4	no	
1,2 - Dichloroethane	IMAC=5	1	1	01/21/02	<0.7	no	
1,1 - Dichloroethylene	14	1	1	01/21/02	<0.5	no	
Ethylbenzene	24	1	1	01/21/02	<0.5	no	
Monochlorobenzene	80	1	1	01/21/02	<0.2	no	
Tetrachloroethylene	30	1	1	01/21/02	<0.3	no	
Toluene	24	1	1	01/21/02	<0.5	no	
Trichloroethlyene	50	1	1	01/21/02	<0.3	no	
Vinyl chloride	2	1	1	01/21/02	<0.5	no	
Xylene	300	2	2	01/21/02	<2.0	no	
Bromodichloromethane	n/a	1	1	01/21/02	3.4	no	
Bromoform	n/a	1	1	01/21/02	<0.4	no	
Chloroform	n/a	1	1	01/21/02	10	no	
Dibromochloromethane	n/a	1	1	01/21/02	1.6	no	

Pesticides & PCB (ug/L)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Alachlor	IMAC=5	1	1	01/21/02	<0.5	no	
Aldicarb	9	1	1	01/21/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	01/21/02	<0.07	no	
Atrazine	IMAC=5	1	1	01/21/02	<1.0	no	
Azinphos-methyl	20	1	1	01/21/02	<2.0	no	
Bendiocarb	40	1	1	01/21/02	<2.0	no	
Bromoxynil	IMAC=5	1	1	01/21/02	<0.5	no	
Carbaryl	90	1	1	01/21/02	<5.0	no	
Carbofuran	90	1	1	01/21/02	<5.0	no	
Chlordane	7	1	1	01/21/02	<0.7	no	
Chorpyrifus	90	1	1	01/21/02	<1.0	no	
Cyanazine	IMAC=10	1	1	01/21/02	<1.0	no	
Diaznon	20	1	1	01/21/02	<1.0	no	
Dicamba	120	1	1	01/21/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	01/21/02	<0.5	no	
DDT + Metapolites	30	1	1	01/21/02	<3.0	no	
2,4 - Dichlorophenexy acid (2,4 -D)	IMAC=100	1	1	01/21/02	<1.0	no	
Diclofop-methyl	9	1	1	01/21/02	<0.9	no	
Dimethoate	IMAC=20	1	1	01/21/02	<2.5	no	
Dinoseb	10	1	1	01/21/02	<1.0	no	
Diquat	70	1	1	01/21/02	<7.0	no	
Diuron	150	1	1	01/21/02	<10.0	no	
Glyphosate	IMAC=280	1	1	01/21/02	<10.0	no	
Heprachlor + Heptachlor epoxide	3	1	1	01/21/02	<0.3	no	
Lindane	4	1	1	01/21/02	<0.4	no	
Malathion	190	1	1	01/21/02	<5.0	no	
Methoxychlor	900	1	1	01/21/02	<90.0	no	
Metolachlor	IMAC=50	1	1	01/21/02	<0.5	no	
Metribuzin	80	1	1	01/21/02	<5.0	no	
Paraquat	IMAC=10	1	1	01/21/02	<1.0	no	
Parathion	50	1	1	01/21/02	<1.0	no	
Pentachlorophenol	60	1	1	01/21/02	<0.5	no	
Phorate	IMAC=2	1	1	01/21/02	<0.5	no	
Picloram	IMAC=190	1	1	01/21/02	<5.0	no	
Polychlorinated Biphenyls	IMAC=3	1	1	01/21/02	<0.3	no	

Prometryne	IMAC=1	1	1	01/21/02	<0.25	no	
Simazine	IMAC=10	1	1	01/21/02	<1.0	no	
Temephos	IMAC=280	1	1	01/21/02	<10	no	
Terbufos	IMAC=1	1	1	01/21/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	1	01/21/02	<0.5	no	
Triallate	230	1	1	01/21/02	<1.0	no	
2,4,6-Trichlorophenol	5	1	1	01/21/02	<0.5	no	
2,4,5 - trichlorophenoxy acedic acid	IMAC=280	1	1	01/21/02	<1.0	no	
Trifluralin	45	1	1	01/21/02	<1.0	no	

	AO or OG	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Calcium	---	1	1	01/21/02	57	no	
Magnesium	---	1	1	01/21/02	8	no	
Potassium	---	1	1	01/21/02	1	no	

Questions & Answers

Q. What is an Accredited Laboratory?

A. Accredited labs must have undergone an on-site assessment and performance review of their methods by the Canadian Association of Environmental and Analytical Laboratories. The Standards Council of Canada grants accreditation to the lab based on the recommendation of the CAEAL. The accreditation requirements are repeated every two years.

Q. What had to be done to meet the new regulations?

A. The Crysler Water Treatment Plant was following the Ontario Drinking Water Objectives (ODWO) before they became law, so little change was required to meet the new regulations. Our chlorine residual in the water leaving the plant was raised to slightly to achieve the (0.20 mg/L free chlorine) required level in the distribution system, and some changes were required in the way results are reported. This report to the public is also the result of the new regulations.

Q. What parameters did you test for?

A. Microbiological parameters, volatile organics, inorganics and pesticides and PCB's have been tested. The results are included in this report.

Q. Sometimes my water looks rusty or coloured. Why is that, and what should I do about it?

A. This is quite often caused when the tanks in older water heaters start to decay. If the colour is seen only in your hot water, this may be the problem. If the colour is also noticed in your cold water it could be coming from the water main. Various maintenance procedures in the distribution system - such as fire hydrant and valve maintenance, or main break repairs - require flushing of the water mains. Flushing can cause small particles of sediment to break off

adding colour to the water. Please note that there is no health risk associated with this problem. This is usually only temporary, and opening your taps for a while to flush out your service line (the pipe from the water main to your house) should take care of the problem. Let the water run until the colour disappears.

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **230000135**
Project: Crysler WTP
Date Sampled: January 6, 2003
Date Received: January 7, 2003
Date Printed: January 09, 2003
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Catholic School	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.27	1.11	1.03
Free Chlorine	mg/L	0.05		1.17	1.02	0.92
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		8	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **230000448**
Project: Crysler WTP
Date Sampled: January 13, 2003
Date Received: January 14, 2003
Date Printed: January 16, 2003
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite
Total Chlorine	mg/L	0.05		1.26	1.14	1.00
Free Chlorine	mg/L	0.05		1.18	1.04	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	26	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:

tario Clean Water Agency
ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **230000766**
Project: Crysler WTP
Date Sampled: January 20, 2003
Date Received: January 21, 2003
Date Printed: January 23, 2003
Matrix: Drinking Water

Parameter	Background	E. coli	Free Cl2	HPC	TC	Total Cl2
Unit	/100mL	/100mL	mg/L	/mL	/100mL	mg/L
MDL	1	1	0.05	2	1	0.05
Sample ID						
Well #1 Raw	12	absent			absent	
Well #1 Treated		absent	1.11	absent	absent	1.18
Dist. S.P.S		absent	0.98	2	absent	1.11
Dist. Post Office		absent	0.96		absent	1.06

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Krystyna Pipin, Laboratory Supervisor

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2200717
Date: 2002-01-29
Date Submitted: 2002-01-22

Project: Crysler Wells - Quarterly

P.O. Number:
Matrix: Supply Water

		LAB ID:	167005				
		Sample Date:	2002-01-21				
		Sample ID:	CRW-02 Treated				
PARAMETER	**UNITS**	**MDL**	TREATEDWATER				
As	mg/L	0.001	<0.001				
B	mg/L	0.05	<0.05				
Ba	mg/L	0.01	0.08				
Ca	mg/L	1	57				
Cd	mg/L	0.0001	<0.0001				
Cr	mg/L	0.001	0.002				
Cu	mg/L	0.001	0.037				
F	mg/L	0.10	0.67				
Fe	mg/L	0.01	<0.01				
[redacted]	mg/L	0.001	<0.001				
[redacted]	mg/L	1	8				
Mn	mg/L	0.01	0.01				
Hg	mg/L	0.0001	<0.0001				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	0.20				
K	mg/L	1	1				
Se	mg/L	0.001	<0.001				
Na	mg/L	2	4				
U	mg/L	0.001	<0.001				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: _____

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2200717
Date: 2002-01-25
Date Submitted: 2002-01-22

Project: Crysler Wells - Quarterly Chemicals

P.O. Number:
Matrix: Supply Water

			LAB ID:				
			Sample Date:				
			Sample ID:				
PARAMETER	UNITS	MDL	167005 2002-01-21 CRW-02 Treated				
BTEX / 624 / PURGEABLE HYDROCARBONS							
Benzene	ug/L	0.5	<0.5				
Toluene	ug/L	0.5	<0.5				
Ethylbenzene	ug/L	0.5	<0.5				
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5				
Bromodichloromethane	ug/L	0.3	3.4				
Bromoform	ug/L	0.4	<0.4				
Carbon Tetrachloride	ug/L	0.9	<0.9				
Monochlorobenzene	ug/L	0.2	<0.2				
Chloroform	ug/L	0.5	10.0				
Dibromochloromethane	ug/L	0.3	1.6				
1,2-dichlorobenzene	ug/L	0.4	<0.4				
1,4-dichlorobenzene	ug/L	0.4	<0.4				
1,2-dichloroethane	ug/L	0.7	<0.7				
1,1-dichloroethylene	ug/L	0.5	<0.5				
Dichloromethane	ug/L	4.0	<4.0				
Tetrachloroethylene	ug/L	0.3	<0.3				
Trichloroethylene	ug/L	0.3	<0.3				
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	15.0				
Xylene; total	ug/L	2.0	<2.0				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		109				
1,2-dichloroethane-d4	%		115				
4-bromofluorobenzene	%		115				

MDL = Method Detection Limit INC = Incomplete
Comment:

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: Crysler Well Supply

ATT: Mr. Blair Henderson

Report Number: 2200717
Date: 2002-03-12
Date Submitted: 2002-01-22

Project: Crysler Wells - Quarterly

Sample Matrix: Supply Water

		LAB ID:	167005				
		Sample Date:	2002-01-21				
		Sample ID:	CRW-02 Treated				
PARAMETER	**UNITS**	**MDL**					
PESTICIDES & PCB's							
Alachlor	mg/L	0.0005	<0.0005				
Aldicarb	mg/L	0.0050	<0.0050				
Aldrin + Dieldrin	mg/L	0.00007	<0.00007				
Atrazine	mg/L	0.001	<0.001				
Azinphos-methyl	mg/L	0.002	<0.002				
Bendiocarb	mg/L	0.0020	<0.0020				
Bromoxynil	mg/L	0.0005	<0.0005				
Carbaryl	mg/L	0.0050	<0.0050				
Carbofuran	mg/L	0.0050	<0.0050				
Chlordane (Total)	mg/L	0.0007	<0.0007				
Chloropyrifos	mg/L	0.0010	<0.0010				
Cyanazine	mg/L	0.0010	<0.0010				
Diazinon	mg/L	0.0010	<0.0010				
Dicamba	mg/L	0.0010	<0.0010				
Diquat	mg/L	0.0070	<0.0070				
2,4-Dichlorophenol	mg/L	0.0005	<0.0005				
DDT	mg/L	0.0030	<0.0030				
2,4-D	mg/L	0.0010	<0.0010				
Diclofop-methyl	mg/L	0.0009	<0.0009				
Dimethoate	mg/L	0.0025	<0.0025				
Dinoseb	mg/L	0.0010	<0.0010				
Diuron	mg/L	0.010	<0.010				
Glyphosate	mg/L	0.010	<0.010				
Heptachlor + Hept. Epoxide	mg/L	0.0003	<0.0003				
Lindane (Total)	mg/L	0.0004	<0.0004				
Malathion	mg/L	0.0050	<0.0050				
Methoxychlor	mg/L	0.0900	<0.0900				
Metolachlor	mg/L	0.0005	<0.0005				

ND = Not Detected (< MDL) MDL = Method Detection Limit

Comment:

APPROVAL: _____

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: Crysler Well Supply

ATT: Mr. Blair Henderson

Report Number: 2200717
Date: 2002-03-12
Date Submitted: 2002-01-22

Project: Crysler Wells - Quarterly

Sample Matrix: Supply Water

		LAB ID:	167005			
		Sample Date:	2002-01-21			
		Sample ID:	CRW-02 Treated			
PARAMETER	**UNITS**	**MDL**				
Metribuzin	mg/L	0.005	<0.005			
Paraquat	mg/L	0.0010	<0.0010			
Parathion	mg/L	0.0010	<0.0010			
Pentachlorophenol	mg/L	0.0005	<0.0005			
Phorate	mg/L	0.0005	<0.0005			
Picloram	mg/L	0.0050	<0.0050			
PCB's (total)	mg/L	0.0003	<0.0003			
Prometryne	mg/L	0.00025	<0.00025			
Simazine	mg/L	0.0010	<0.0010			
[illegible]mephos	mg/L	0.010	<0.010			
[illegible]rbufos	mg/L	0.0007	<0.0007			
2,3,4,6-Tetrachlorophenol	mg/L	0.0005	<0.0005			
Triallate	mg/L	0.0010	<0.0010			
2,4,6-Trichlorophenol	mg/L	0.0005	<0.0005			
Trifluralin	mg/L	0.0010	<0.0010			
2,4,5-T	mg/L	0.0010	<0.0010			

ND = Not Detected (< MDL) MDL = Method Detection Limit

Comment:

APPROVAL: 

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2201010
Date: 2002-02-06
Date Submitted: 2002-01-29

Project: Crysler Wells Quarterly

P.O. Number:
Matrix: Supply Water

		LAB ID:	167760				
		Sample Date:	2002-01-28				
		Sample ID:	CRW-01 Raw				
PARAMETER	**UNITS**	**MDL**	RAW WATER				
Ca	mg/L	1	66				
Cl	mg/L	1	19				
Conductivity	uS/cm	5	435				
Colour	TCU	2	<2				
DOC	mg/L	0.5	<0.5				
Fe	mg/L	0.01	<0.01				
Hardness as CaCO3	mg/L	1	210				
Mg	mg/L	1	11				
Mn	mg/L	0.01	<0.01				
N-NH3	mg/L	0.02	<0.02				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	0.22				
pH			7.76				
Na	mg/L	2	5				
Total Kjeldahl Nitrogen	mg/L	0.05	0.10				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: J. Carr

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2200720
Date: 2002-01-25
Date Submitted: 2002-01-22

Project: Crysler System

P.O. Number:
Matrix: Supply Water

		LAB ID:	167008				
		Sample Date:	2002-01-21				
		Sample ID:	CRW-System SPS#1				
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Bromodichloromethane	ug/L	0.3	1.5				
Bromoform	ug/L	0.4	<0.4				
Chloroform	ug/L	0.5	3.5				
Dibromochloromethane	ug/L	0.3	0.6				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	5.6				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		104				

MDL = Method Detection Limit INC = Incomplete

Comment:

APPROVAL:

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REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2200720
Date: 2002-01-29
Date Submitted: 2002-01-22

Project: Crysler System

P.O. Number:
Matrix: Supply Water

		LAB ID:	167008				
		Sample Date:	2002-01-21				
		Sample ID:	CRW-System SPS#1				
PARAMETER	**UNITS**	**MDL**	TREATEDWATER				
Pb	mg/L	0.001	<0.001 ✓				

MDL = Method Detection Limit INC = Incomplete
Comment:

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Caduceon Enterprises Inc.
Environmental Laboratory

Certificate of Analysis

Client:
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[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000058**
Project: Crysler WTP
Date Sampled: January 2, 2002
Date Received: January 3, 2002
Date Printed: January 07, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. SPS
Total Chlorine	mg/L	0.05		1.30	1.40	0.80
Free Chlorine	mg/L	0.05		1.20	1.40	0.60
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Enterprises Inc.

Environmental Laboratory

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted]Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000171**
Project: Crysler WTP
Date Sampled: January 7, 2002
Date Received: January 8, 2002
Date Printed: January 10, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Statellite	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.40	1.60	1.60
Free Chlorine	mg/L	0.05		1.40	1.60	1.50
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	8	absent	2	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted]Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000387**
Project: Crysler WTP
Date Sampled: January 14, 2002
Date Received: January 15, 2002
Date Printed: January 17, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Canada Post	Dist. SPS
Total Chlorine	mg/L	0.05		1.50	1.70	1.10
Free Chlorine	mg/L	0.05		1.30	1.70	1.10
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	20	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000612**
Project: Crysler WTP
Date Sampled: January 21, 2002
Date Received: January 22, 2002
Date Printed: January 25, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Nortre Dame
Total Chlorine	mg/L	0.05		2.00	2.00	1.80
Free Chlorine	mg/L	0.05		2.00	1.80	1.70
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	4	2	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Caduceon Enterprises Inc.
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Client:
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[redacted]Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000785**
Project: Crysler WTP
Date Sampled: January 28, 2002
Date Received: January 29, 2002
Date Printed: January 31, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. Community Centre
Total Chlorine	mg/L	0.05		1.70	1.50	1.80
Free Chlorine	mg/L	0.05		1.70	1.50	1.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Caduceon Enterprises Inc.

Environmental Laboratory

Certificate of Analysis

Client:
[illegible]tario Clean Water Agency
[illegible]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220000964**
Project: Crysler WTP
Date Sampled: February 4, 2002
Date Received: February 5, 2002
Date Printed: February 07, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. SPS
Total Chlorine	mg/L	0.05		2.00	2.00	1.80
Free Chlorine	mg/L	0.05		2.00	1.80	1.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Enterprises Inc.
Environmental Laboratory

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220001203**
Project: Crysler WTP
Date Sampled: February 11, 2002
Date Received: February 12, 2002
Date Printed: February 14, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Canada Post	Dist. Satellite
Total Chlorine	mg/L	0.05		1.00	1.60	1.50
Free Chlorine	mg/L	0.05		1.00	1.50	1.50
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	4	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220001419**
Project: Crysler WTP
Date Sampled: February 18, 2002
Date Received: February 19, 2002
Date Printed: February 21, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. SPS
Total Chlorine	mg/L	0.05		1.40	1.50	1.50
Free Chlorine	mg/L	0.05		1.10	1.40	1.50
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Client:
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[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220001624**
Project: Crysler WTP
Date Sampled: February 25, 2002
Date Received: February 26, 2002
Date Printed: February 28, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. 8 Bridge St.	Dist. Sunny's Gas Bar
Total Chlorine	mg/L	0.05		1.50	1.10	1.30
Free Chlorine	mg/L	0.05		1.50	1.10	1.30
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	8	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Client:
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Chesterville, ON
K0C 1H0

Attention: Dave Markell

Report: 220001902
Project: Crysler WTP
Date Sampled: March 4, 2002
Date Received: March 5, 2002
Date Printed: March 07, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Water Tower
Total Chlorine	mg/L	0.05		1.30	1.40	1.50
Free Chlorine	mg/L	0.05		1.30	1.30	1.50
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	6	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220002206**
Project: Crysler WTP
Date Sampled: March 11, 2002
Date Received: March 12, 2002
Date Printed: March 14, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. Satellite
Total Chlorine	mg/L	0.05		1.10	1.60	1.60
Free Chlorine	mg/L	0.05		1.10	1.50	1.60
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	6	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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K. Ziebell

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220002449**
Project: Crysler WTP
Date Sampled: March 18, 2002
Date Received: March 19, 2002
Date Printed: March 21, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Hardware Store	Dist. SPS #1
Total Chlorine	mg/L	0.05		1.20	1.00	1.00
Free Chlorine	mg/L	0.05		1.20	1.00	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	2	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]ntario Clean Water Agency
[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220002714**
Project: Crysler WTP
Date Sampled: March 25, 2002
Date Received: March 26, 2002
Date Printed: April 01, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Canada Post	Dist. Water Tower
Total Chlorine	mg/L	0.05		1.20	1.50	1.80
Free Chlorine	mg/L	0.05		1.20	1.50	1.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Crysler Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present its Second Quarter Report in 2002 on drinking water quality. This report has been prepared in response to legislative changes brought about by "Operation Clean Water", an initiative of Ontario's Ministry of the Environment to ensure high quality drinking water for the residents of Ontario. The new regulations put into law what was formerly the Ontario Drinking Water Objectives (ODWO), and sets requirements for public waterworks with regard to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Further information on the Ontario Drinking Water Regulations can be found on the Ministry of the Environment web site at www.ene.gov.on.ca

Where to contact us for information

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Web site at www.ocwa.com

Client Services Representative: John Kingsbury
Phone : (613) 774-3663
E-mail Address: jkingsbury@ocwa.com

Operations Manager: Blair Henderson
Phone: (613) 448-3098
E-mail Address: bhenderson@ocwa.com

You may also contact the Township of North Stormont directly by contacting Rheal Charbonneau, Clerk-Treasurer, Tel. (613) 984-2821 or e-mail address: admin@northstormont.on.ca

Free copies of this report are available at the Township office or their website @ www.townshipofnorthstormont.on.ca

INSIDE THIS REPORT

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

Introduction

We are proud to report that for the period April to June 2002, your water conformed to the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The Ontario Clean Water Agency (OCWA) is dedicated to maximizing public health and safety through efficient and reliable operation of your water facility and distribution system.

Plant Description and Treatment Processes

Facility Name:	Crysler WTP & Distribution System
Total Design Capacity	1,685 cubic meters/day
Raw Water Source	Groundwater
Disinfection Method	Sodium Hypochlorite
Municipal Location	Municipal Office, 2 Victoria Street, Berwick, Ontario
Service Area	Village of Crysler
Service Population	600

Operational Description:

Raw Water Source: Two drilled wells, one duty and one standby, located on County Road 13 east of the Village of Crysler.

Low Lift Pumps: Two submersible pumps direct the water to a common header which feeds directly into the feeder line, approximately 5 kilometers in length, to the distribution grid and elevated storage tank with a storage capacity of 1,238 cubic meters.

Chemical Injection: Sodium Hypochlorite for disinfection and Hydrofluosilicic Acid for fluoridation are injected into the common header after the well pump discharge. The residuals are continuously monitored.

Distribution System: There are approximately 600 persons supplied with water from the Crylser Water Treatment System.

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

Quality Control & Compliance With Provincial Regulations

This plant provides multiple barriers against bacteriological contamination. Bacteriological testing is carried out on raw water, treated water and distribution samples on a regular frequency. On-line analysers for chlorine residuals and turbidity ensure daily monitoring of water leaving the plant. Chlorine levels in the distribution system are also checked on a regular basis. More specialized testing occurs monthly and quarterly and includes Volatile Organics, Inorganics, Pesticides and PCB's.

OCWA uses internal compliance auditing techniques by teams from within the organization. OCWA operates the Crysler Water Treatment Facility in accordance with provincial regulations. Here is how we do it:

- Use of Accredited Labs. Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

- Operation by Licensed Operators. Your water treatment plant is operated and maintained by the Ontario Clean Water Agency's competent and licensed staff. The mandatory licensing program for operators of drinking water facilities is regulated under the *Ontario Water Resources Act (OWRA)* Regulation 435/93. Licensing means that an individual meets the education and experience requirements and has successfully passed the certificate exam.

- Sampling and Analytical requirements. OCWA follows a sampling and analysis schedule required by *OWRA* Regulation 459/00, the Ontario Drinking Water Standards. More information on sampling and analysis including results are available in this report and from your municipal office.

- Adherence to Ministry Guidelines and Procedures. To ensure the protection of the health and operational excellence, the OCWA adheres to the guidelines and procedures developed by the Ministry of the Environment and the Ministry of Health.

Did We Exceed the Standards?

We did not exceed any health related Ontario Drinking Water Standards for this reporting period.

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

Definitions & Terms

m^3 - Cubic Meter, $1m^3 = 1000$ litres
TCU - True Colour Units
$CaCO_3$ - Calcium Carbonate
mg - milligram
mg/L - milligrams per litre
ug/L - micrograms per litre
ng/L - nanograms per litre
NTU - Nephelometric Turbidity Units
MAC - Maximum Acceptable Concentration
IMAC - Interim Maximum Acceptable Concentration
Coliform Bacteria - a group of commonly occurring rod shaped bacteria. Their presence in a water sample is indicative of inadequate filtration and/or disinfection.
Fecal Coliform Bacteria - refers to a subgroup of coliform bacteria present in the digestive system of warm blooded animals and humans.
Heterotrophic Plate Count - a method of measuring bacterial content in water samples. Also known as Standard Plate Count.
Organic Parameter - a group of chemical compounds containing carbon.
Inorganic Parameter - a group of chemical compounds not containing carbon.
Raw Water - Surface or ground water available as a source of drinking water that has not received any treatment.

Required Testing

The Ontario Drinking Water Regulations and Certificates of Approval (C of A) set sampling requirements for the plant. All other sampling conforms to the Drinking Water Protection Regulation schedule for sampling and analysis. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases can pick up substances resulting from the presence of animals or from human activity. Your water is extensively tested for the presence of dozens of compounds. The results of all analytical tests are available at your municipal office. The following table lists all compounds analyzed.

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Water Quality Test Results

Microbiological Parameters	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Containment
Total Coliform (counts/100ml)	0	39	0	04/01/02 06/30/02	n/a	no	Indicate possible presence of coliform
Escherichia Coliform (counts/100 ml)	0	39	0	04/01/02 06/30/02	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (count/100 ml)	500	26	6	04/01/02 06/30/02	2-4	no	Indicator of deteriorating water quality if greater than 500
Parameters related to Microbiological Quality	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Containment**
Turbidity (NTU)	1	Continuous	Continuous	04/01/02 06/30/02	0.04-0.55	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	04/01/02 06/30/02	0.77-1.89	no	Chlorine added for Disinfection
Free Chlorine-Distribution (mg/l min 0.05 & max. 4.0)	-	Grab samples weekly	Weekly	04/01/02 06/30/02	0.7-1.4	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)
Inorganic Parameters (mg/l)	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Contaminant**
Lead - Distribution	0.01	1	1	01/21/02	<0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	04/11/02	0.65	no	Natural component of water
Nitrite	1	1	1	04/11/02	<0.1	no	
Arsenic	IMAC= 0.025	1	1	01/21/02	<0.001	no	
Barium	1	1	1	01/21/02	0.08	no	
Boron	IMAC= 5.0	1	1	01/21/02	<0.05	no	
Cadmium	0.005	1	1	01/21/02	<0.0001	no	
Chromium (Total)	0.05	1	1	01/21/02	0.002	no	
Copper	1	1	1	01/21/02	0.037	no	
Iron	0.3	1	1	01/21/02	<0.01	no	
Lead	0.01	1	1	01/21/02	<0.001	no	
Manganese	0.05	1	1	01/21/02	0.01	no	
Mercury	0.001	1	1	01/21/02	<0.0001	no	
Selenium	0.01	1	1	01/21/02	<0.001	no	
Uranium	0.1	1	1	01/21/02	<0.001	no	
Sodium	200	1	1	01/21/02	4	no	
Fluoride	2.4	Continuous	Continuous	Continuous	0.5-0.8	no	
Volatile Organics (ug/l)	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Contaminant**
Trihalomethanes - Plant	100	1	1	04/11/02	8.4	no	
Trihalomethanes - Dist.	100	1	1	04/11/02	8.4	no	
Benzene	5	1	1	04/11/02	<0.5	no	
Carbon Tetrachloride	5	1	1	04/11/02	<0.9	no	
Dichloromethane	50	1	1	04/11/02	<4	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

April - June 2002, Crysler Water Plant - Serving the Village of Crysler

1,2 - Dichlorobenzene	200	1	1	04/11/02	<0.4	no	
1, 4 - Dichlorobenzene	5	1	1	04/11/02	<0.4	no	
1,2 - Dichloroethane	IMAC=5	1	1	04/11/02	<0.7	no	
1,1 - Dichloroethylene	14	1	1	04/11/02	<0.5	no	
Ethylbenzene	24	1	1	04/11/02	<0.5	no	
Monochlorobenzene	80	1	1	04/11/02	<0.2	no	
Volatile Organics (ug/l)	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Contaminant**
Tetrachloroethylene	30	1	1	04/11/02	<0.3	no	
Toluene	24	1	1	04/11/02	<0.5	no	
Trichloroethlyene	50	1	1	04/11/02	<0.3	no	
Vinyl chloride	2	1	1	04/11/02	<0.5	no	
Xylene	300	2	2	04/11/02	<2.0	no	
Bromodichloromethane	n/a	1	1	04/11/02	2.2	no	
Bromoform	n/a	1	1	04/11/02	<0.4	no	
Chloroform	n/a	1	1	04/11/02	5.5	no	
Dibromochloromethane	n/a	1	1	04/11/02	0.7	no	
Pesticides & PCB (ug/L)	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Contaminant**
Alachlor	IMAC=5	1	1	04/11/02	<0.5	no	
Aldicarb	9	1	1	04/11/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	04/11/02	<0.07	no	
Atrazine	IMAC=5	1	1	04/11/02	<1.0	no	
Azinphos-methyl	20	1	1	04/11/02	<2.0	no	
Bendiocarb	40	1	1	04/11/02	<2.0	no	
Bromoxynil	IMAC=5	1	1	04/11/02	<0.5	no	
Carbaryl	90	1	1	04/11/02	<5.0	no	
Carbofuran	90	1	1	04/11/02	<5.0	no	
Chlordane	7	1	1	04/11/02	<0.7	no	
Chorpyrifus	90	1	1	04/11/02	<1.0	no	
Cyanazine	IMAC=10	1	1	04/11/02	<1.0	no	
Diaznon	20	1	1	04/11/02	<1.0	no	
Dicamba	120	1	1	04/11/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	04/11/02	<0.5	no	
DDT + Metapolites	30	1	1	04/11/02	<3.0	no	
2,4 - Dichlorophenexy acid (2,4 -D)	IMAC=100	1	1	04/11/02	<1.0	no	
Diclofop-methyl	9	1	1	04/11/02	<0.9	no	
Dimethoate	IMAC=20	1	1	04/11/02	<2.5	no	
Dinoseb	10	1	1	04/11/02	<1.0	no	
Diquat	70	1	1	04/11/02	<7.0	no	
Diuron	150	1	1	04/11/02	<10.0	no	
Glyphosate	IMAC=280	1	1	04/11/02	<10.0	no	
Heprachlor + Heptachlor epoxide	3	1	1	04/11/02	<0.3	no	
Lindane	4	1	1	04/11/02	<0.4	no	
Malathion	190	1	1	04/11/02	<5.0	no	
Methoxychlor	900	1	1	04/11/02	<90.0	no	
Metolachlor	IMAC=50	1	1	04/11/02	<0.5	no	
Metribuzin	80	1	1	04/11/02	<5.0	no	
Paraquat	IMAC=10	1	1	04/11/02	<1.0	no	
Parathion	50	1	1	04/11/02	<1.0	no	
Pentachlorophenol	60	1	1	04/11/02	<0.5	no	
Phorate	IMAC=2	1	1	04/11/02	<0.5	no	
Picloram	IMAC=190	1	1	04/11/02	<5.0	no	

Polychlorinated Biphenyls	IMAC=3	1	1	04/11/02	<0.3	no	
Prometryne	IMAC=1	1	1	04/11/02	<0.25	no	
Simazine	IMAC=10	1	1	04/11/02	<1.0	no	
Temephos	IMAC=280	1	1	04/11/02	<10	no	
Terbufos	IMAC=1	1	1	04/11/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	1	04/11/02	<0.5	no	
Triallate	230	1	1	04/11/02	<1.0	no	
2,4,6-Trichlorophenol	5	1	1	04/11/02	<0.5	no	
2,4,5 - trichlorophenoxy acedic acid	IMAC=280	1	1	04/11/02	<1.0	no	
Trifluralin	45	1	1	04/11/02	<1.0	no	

Additional Parameters Non-Health Related (mg/L)	AO or OG	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Calcium	---	1	1	01/21/02	57	no	
Magnesium	---	1	1	01/21/02	8	no	
Potassium	---	1	1	01/21/02	1	no	

Questions & Answers

Q. What is an Accredited Laboratory?

A. Accredited labs must have undergone an on-site assessment and performance review of their methods by the Canadian Association of Environmental and Analytical Laboratories. The Standards Council of Canada grants accreditation to the lab based on the recommendation of the CAEAL. The accreditation requirements are repeated every two years.

Q. What had to be done to meet the new regulations?

A. The Crysler Water Treatment Plant was following the Ontario Drinking Water Objectives (ODWO) before they became law, so little change was required to meet the new regulations. Our chlorine residual in the water leaving the plant was raised to slightly to achieve the (0.20 mg/L free chlorine) required level in the distribution system, and some changes were required in the way results are reported. This report to the public is also the result of the new regulations.

Q. What parameters did you test for?

A. Microbiological parameters, volatile organics, inorganics and pesticides and PCB's have been tested. The results are included in this report.

Q. Sometimes my water looks rusty or coloured. Why is that, and what should I do about it?

A. This is quite often caused when the tanks in older water heaters start to decay. If the colour is seen only in your hot water, this may be the problem. If the colour is also noticed in your cold water it could be coming from the water main. Various maintenance procedures in the distribution system - such as fire hydrant and valve maintenance, or main break repairs - require flushing of the water mains. Flushing can cause small particles of sediment to break off adding colour to the water. Please note that there is no health risk associated with this problem. This is usually only temporary, and opening your taps for a while to flush out your service line (the pipe from the water main to your house) should take care of the problem. Let the water run until the colour disappears.

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220002967**
Project: Crysler WTP
Date Sampled: April 2, 2002
Date Received: April 3, 2002
Date Printed: April 05, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. SPS
Total Chlorine	mg/L	0.05		1.00	1.50	1.00
Free Chlorine	mg/L	0.05		1.00	1.40	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]ntario Clean Water Agency
[illegible]Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220003204**
Project: Crysler WTP
Date Sampled: April 8, 2002
Date Received: April 9, 2002
Date Printed: April 11, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Crysler Satellite	Dist. Post Office
Total Chlorine	mg/L	0.05		1.60	1.10	1.20
Free Chlorine	mg/L	0.05		1.50	1.00	1.20
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	4	2	2	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[O]ntario Clean Water Agency
[O]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220003482**
Project: Crysler WTP
Date Sampled: April 15, 2002
Date Received: April 16, 2002
Date Printed: April 18, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Community Centre	Dist. SPS
Total Chlorine	mg/L	0.05		1.60	1.30	1.30
Free Chlorine	mg/L	0.05		1.50	1.20	1.20
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220003773**
Project: Crysler WTP
Date Sampled: April 22, 2002
Date Received: April 23, 2002
Date Printed: April 25, 2002
Matrix: Drinking Water

Parameter	E. coli	Free Cl2	HPC	TC	Total Cl2
Unit	/100mL	mg/L	/mL	/100mL	mg/L
MDL	1	0.05	2	1	0.05
Sample ID					
Well #1 Raw	absent		2	absent	
Well #1 Treated	absent	2.00	absent	absent	2.20
Dist. Home Hardware	absent	1.10	absent	absent	1.30
Dist. Crysler Satellite	absent	1.10		absent	1.30

Caduceon Environmental Laboratories
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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220004030**
Project: Crysler WTP
Date Sampled: April 29, 2002
Date Received: April 30, 2002
Date Printed: May 02, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Mini Mart	Dist. Home Satellite
Total Chlorine	mg/L	0.05		1.70	1.10	1.10
Free Chlorine	mg/L	0.05		1.50	1.00	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	4	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2204291
Date: 2002-04-17
Date Submitted: 2002-04-12

Project: Crysler - Quarterly Chem

P.O. Number:
Matrix: Supply Water

			LAB ID:	176576			
			Sample Date:	2002-04-11			
			Sample ID:	CRW-02 Treated			
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Benzene	ug/L	0.5	<0.5				
Toluene	ug/L	0.5	<0.5				
Ethylbenzene	ug/L	0.5	<0.5				
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5				
Bromodichloromethane	ug/L	0.3	2.2				
Bromoform	ug/L	0.4	<0.4				
Carbon Tetrachloride	ug/L	0.9	<0.9				
Chlorobenzene	ug/L	0.2	<0.2				
Chloroform	ug/L	0.5	5.5				
Dibromochloromethane	ug/L	0.3	0.7				
1,2-dichlorobenzene	ug/L	0.4	<0.4				
1,4-dichlorobenzene	ug/L	0.4	<0.4				
1,2-dichloroethane	ug/L	0.7	<0.7				
1,1-dichloroethylene	ug/L	0.5	<0.5				
Dichloromethane	ug/L	4.0	<4.0				
Tetrachloroethylene	ug/L	0.3	<0.3				
Trichloroethylene	ug/L	0.3	<0.3				
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	8.4				
Xylene; total	ug/L	2.0	<2.0				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		99				
1,2-dichloroethane-d4	%		84				
4-bromofluorobenzene	%		102				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL:

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

608 Norris Court, Kingston, ON, K7P 2R9

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: Crysler Well Supply

ATT: Mr. Blair Henderson

Report Number: 2204291
Date: 2002-05-02
Date Submitted: 2002-04-12

Project: Crysler - Quarterly Chem
Sample Matrix: Supply Water

			LAB ID:				
			176576				
			Sample Date:				
			2002-04-11				
			Sample ID:				
			CRW-02 Treated				
PARAMETER	**UNITS**	**MDL**					
PESTICIDES & PCB's							
Alachlor	mg/L	0.0005	<0.0005				
Aldicarb	mg/L	0.0050	<0.0050				
Aldrin + Dieldrin	mg/L	0.00007	<0.00007				
Atrazine	mg/L	0.001	<0.001				
Azinphos-methyl	mg/L	0.002	<0.002				
Bendiocarb	mg/L	0.0020	<0.0020				
Bromoxynil	mg/L	0.0005	<0.0005				
Carbaryl	mg/L	0.0050	<0.0050				
Carbofuran	mg/L	0.0050	<0.0050				
Chlordane (Total)	mg/L	0.0007	<0.0007				
Chloropyrifos	mg/L	0.0010	<0.0010				
Cyanazine	mg/L	0.0010	<0.0010				
Diazinon	mg/L	0.0010	<0.0010				
Dicamba	mg/L	0.0010	<0.0010				
Diquat	mg/L	0.0070	<0.0070				
2,4-Dichlorophenol	mg/L	0.0005	<0.0005				
DDT	mg/L	0.0030	<0.0030				
2,4-D	mg/L	0.0010	<0.0010				
Diclofop-methyl	mg/L	0.0009	<0.0009				
Dimethoate	mg/L	0.0025	<0.0025				
Dinoseb	mg/L	0.0010	<0.0010				
Diuron	mg/L	0.010	<0.010				
Glyphosate	mg/L	0.010	<0.010				
Heptachlor + Hept. Epoxide	mg/L	0.0003	<0.0003				
Lindane (Total)	mg/L	0.0004	<0.0004				
Malathion	mg/L	0.0050	<0.0050				
Methoxychlor	mg/L	0.0900	<0.0900				
Metolachlor	mg/L	0.0005	<0.0005				

all checked

ND = Not Detected (< MDL) MDL = Method Detection Limit

Comment:

APPROVAL: _____

146 Colonnade Road, Unit 8, Nepean, Ontario K2E 7Y1 Tel:(613)727-5692 Fax:(613)727-5222

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: Crysler Well Supply

ATT: Mr. Blair Henderson

Report Number: 2204291
Date: 2002-05-02
Date Submitted: 2002-04-12

Project: Crysler - Quarterly Chem
Sample Matrix: Supply Water

		LAB ID:	176576			
		Sample Date:	2002-04-11			
		Sample ID:	CRW-02 Treated			
PARAMETER	**UNITS**	**MDL**				
Metribuzin	mg/L	0.005	<0.005			
Paraquat	mg/L	0.0010	<0.0010			
Parathion	mg/L	0.0010	<0.0010			
Pentachlorophenol	mg/L	0.0005	<0.0005			
Phorate	mg/L	0.0005	<0.0005			
Picloram	mg/L	0.0050	<0.0050			
PCB's (total)	mg/L	0.0003	<0.0003			
Prometryne	mg/L	0.00025	<0.00025			
Simazine	mg/L	0.0010	<0.0010			
[illegible]mephos	mg/L	0.010	<0.010			
[illegible]rbufos	mg/L	0.0007	<0.0007			
2,3,4,6-Tetrachlorophenol	mg/L	0.0005	<0.0005			
Triallate	mg/L	0.0010	<0.0010			
2,4,6-Trichlorophenol	mg/L	0.0005	<0.0005			
Trifluralin	mg/L	0.0010	<0.0010			
2,4,5-T	mg/L	0.0010	<0.0010			

checked

ND = Not Detected (< MDL) MDL = Method Detection Limit

Comment:

APPROVAL: _____

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ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2204291
Date: 2002-04-19
Date Submitted: 2002-04-12

Project: Crysler - Quarterly Chem

P.O. Number:
Matrix: Supply Water

		LAB ID:	176576				
		Sample Date:	2002-04-11				
		Sample ID:	CRW-02 Treated				
PARAMETER	**UNITS**	**MDL**	TREATEDWATER				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	0.65				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: _____

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2204302
Date: 2002-04-17
Date Submitted: 2002-04-12

Project: Crysler - Quarterly Chem

P.O. Number:
Matrix: Supply Water

		LAB ID:	176591				
		Sample Date:	2002-04-11				
		Sample ID:	CRW-02 Treated				
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Bromodichloromethane	ug/L	0.3	2.2				
Bromoform	ug/L	0.4	<0.4				
Chloroform	ug/L	0.5	5.5				
Dibromochloromethane	ug/L	0.3	0.7				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	8.4				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		98				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL:

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

608 Norris Court, Kingston, ON, K7P 2R9

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]tario Clean Water Agency
[illegible] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220004300**
Project: Crysler WTP
Date Sampled: May 6, 2002
Date Received: May 7, 2002
Date Printed: May 09, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Sewage Pumping Station SPS	Dist. Med Center
Total Chlorine	mg/L	0.05		1.20	1.10	0.90
Free Chlorine	mg/L	0.05		1.10	1.00	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

FOR Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]tario Clean Water Agency
[illegible]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220004585**
Project: Crysler WTP
Date Sampled: May 13, 2002
Date Received: May 13, 2002
Date Printed: May 15, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. Satelllite
Total Chlorine	mg/L	0.05		2.10	1.40	1.50
Free Chlorine	mg/L	0.05		2.00	1.00	1.10
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]tario Clean Water Agency
[illegible] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220004819**
Project: Crysler WTP
Date Sampled: May 16, 2002
Date Received: May 17, 2002
Date Printed: May 21, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification
			Raw Standby
E. coli	/100mL	1	absent
Total Coliforms	/100mL	1	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
ntario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220004903**
Project: Crysler WTP
Date Sampled: May 21, 2002
Date Received: May 22, 2002
Date Printed: May 24, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.80	1.20	1.20
Free Chlorine	mg/L	0.05		1.80	1.10	1.10
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220005179**
Project: Crysler WTP
Date Sampled: May 27, 2002
Date Received: May 28, 2002
Date Printed: May 30, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Crysler Satellite	Dist. Richer Plumbing
Total Chlorine	mg/L	0.05		1.50	1.30	1.00
Free Chlorine	mg/L	0.05		1.40	1.20	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	2	
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Tel: (613)526-0123, Fax: (613)526-1244

For Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220005319**
Project: Crysler WTP
Date Sampled: May 29, 2002
Date Received: May 30, 2002
Date Printed: May 31, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification
			Raw Water -Standby Well
E. coli	/100mL	1	absent
Total Coliforms	/100mL	1	absent

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Michael Ziebell, General Manager

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Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220005453**
Project: Crysler WTP
Date Sampled: June 3, 2002
Date Received: June 4, 2002
Date Printed: June 06, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. Tower
Total Chlorine	mg/L	0.05		1.90	1.20	1.20
Free Chlorine	mg/L	0.05		1.70	1.00	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	absent	
Background bacteria	/100mL	1	24			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220005913**
Project: Crysler WTP
Date Sampled: June 11, 2002
Date Received: June 12, 2002
Date Printed: June 14, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. School
Total Chlorine	mg/L	0.05		1.70	1.20	1.20
Free Chlorine	mg/L	0.05		1.60	1.10	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

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Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]ario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220006129**
Project: Crysler WTP
Date Sampled: June 17, 2002
Date Received: June 18, 2002
Date Printed: June 20, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Sewage Pumping Station	Dist. Satellite System
Total Chlorine	mg/L	0.05		1.10	0.80	1.20
Free Chlorine	mg/L	0.05		1.10	0.70	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	2			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220006428**
Project: Crysler WTP
Date Sampled: June 24, 2002
Date Received: June 25, 2002
Date Printed: June 27, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Home Hardware	Dist. Sewage Pumping Station
Total Chlorine	mg/L	0.05		1.30	1.10	1.20
Free Chlorine	mg/L	0.05		1.10	1.00	1.10
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	absent	
Background bacteria	/100mL	1	60			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

QUARTERLY REPORT ON DRINKING WATER QUALITY

July-September 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Crysler Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present the 2002 Third Quarter Report on drinking water quality. This report has been prepared in response to legislative changes brought about by "Operation Clean Water", an initiative of Ontario's Ministry of the Environment to ensure high quality drinking water for the residents of Ontario. The new regulations put into law what was formerly the Ontario Drinking Water Objectives (ODWO), and sets requirements for public waterworks with regard to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Further information on the Ontario Drinking Water Regulations can be found on the Ministry of the Environment web site at www.ene.gov.on.ca

Where to contact us for information

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Web site at www.ocwa.com

Client Services Representative: John Kingsbury
Phone : (613) 774-3663
E-mail Address: jkingsbury@ocwa.com

Operations Manager: Blair Henderson
Phone: (613) 448-3098
E-mail Address: bhenderson@ocwa.com

You may also contact the Township of North Stormont directly by contacting Rheal Charbonneau, Clerk-Treasurer, Tel. (613) 984-2821 or e-mail address: admin@northstormont.on.ca

Free copies of this report are available at the Township office or their website @ www.townshipofnorthstormont.on.ca

INSIDE THIS REPORT

QUARTERLY REPORT ON DRINKING WATER QUALITY

July - September 2001, Crysler Water Plant - Serving the Village of Crysler

Crysler Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Crysler Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present its Third Quarter Report in 2001 on drinking water quality. This report has been prepared in response to legislative changes brought about by "Operation Clean Water", an initiative of Ontario's Ministry of the Environment to ensure high quality drinking water for the residents of Ontario. The new regulations put into law what was formerly the Ontario Drinking Water Objectives (ODWO), and sets requirements for public waterworks with regard to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Further information on the Ontario Drinking Water Regulations can be found on the Ministry of the Environment web site at www.ene.gov.on.ca

Where to contact us for information

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Web site at www.ocwa.com

Client Services Representative: John Kingsbury
Phone : (613) 821-3371
E-mail Address: jkingsbury@ocwa.com

Operations Manager: Blair Henderson
Phone: (613) 448-3098
E-mail Address: bhenderson@ocwa.com

You may also contact the Township of North Stormont directly by contacting Rheal Charbonneau, Clerk-Treasurer, Tel. (613) 984-2821 or
e-mail address: norstor@cnwl.igs.net

Free copies of this report are available at the Township office or their website @ www.cnwl.igs.net/~northstormont

INSIDE THIS REPORT

QUARTERLY REPORT ON DRINKING WATER QUALITY

July-September 2002, Crysler Water Plant - Serving the Village of Crysler

Introduction

We are proud to report that for the period July to September 2002, your water conformed to the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The Ontario Clean Water Agency (OCWA) is dedicated to maximizing public health and safety through efficient and reliable operation of your water facility and distribution system.

Plant Description and Treatment Processes

Facility Name:	Crysler WTP & Distribution System
Total Design Capacity	1,685 cubic meters/day
Raw Water Source	Groundwater
Disinfection Method	Sodium Hypochlorite
Municipal Location	Municipal Office, 2 Victoria Street, Berwick, Ontario
Service Area	Village of Crysler
Service Population	600

Operational Description:

Raw Water Source: Two drilled wells, one duty and one standby, located on County Road 13 east of the Village of Crysler.

Low Lift Pumps: Two submersible pumps direct the water to a common header which feeds directly into the feeder line, approximately 5 kilometers in length, to the distribution grid and elevated storage tank with a storage capacity of 1,238 cubic meters.

Chemical Injection: Sodium Hypochlorite for disinfection and Hydrofluosilicic Acid for fluoridation are injected into the common header after the well pump discharge. The residuals are continuously monitored.

Distribution System: There are approximately 600 persons supplied with water from the Crylser Water Treatment System.

QUARTERLY REPORT ON DRINKING WATER QUALITY

July-September 2002, Crysler Water Plant - Serving the Village of Crysler

Quality Control & Compliance With Provincial Regulations

This plant provides multiple barriers against bacteriological contamination. Bacteriological testing is carried out on raw water, treated water and distribution samples on a regular frequency. On-line analysers for chlorine residuals and turbidity ensure daily monitoring of water leaving the plant. Chlorine levels in the distribution system are also checked on a regular basis. More specialized testing occurs monthly and quarterly and includes Volatile Organics, Inorganics, Pesticides and PCB's.

OCWA uses internal compliance auditing techniques by teams from within the organization. OCWA operates the Crysler Water Treatment Facility in accordance with provincial regulations. Here is how we do it:

- Use of Accredited Labs. Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

- Operation by Licensed Operators. Your water treatment plant is operated and maintained by the Ontario Clean Water Agency's competent and licensed staff. The mandatory licensing program for operators of drinking water facilities is regulated under the *Ontario Water Resources Act (OWRA)* Regulation 435/93. Licensing means that an individual meets the education and experience requirements and has successfully passed the certificate exam.

- Sampling and Analytical requirements. OCWA follows a sampling and analysis schedule required by *OWRA* Regulation 459/00, the Ontario Drinking Water Standards. More information on sampling and analysis including results are available in this report and from your municipal office.

- Adherence to Ministry Guidelines and Procedures. To ensure the protection of the health and operational excellence, the OCWA adheres to the guidelines and procedures developed by the Ministry of the Environment and the Ministry of Health.

Did We Exceed the Standards?

During the third quarter 2002, in the month of August, a treated water sample from Well # 1 was found to exceed the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. On August 26, 2002, Well # 1 treated water exceeded MAC for Heterotrophic Plate Count with a result of 600/ml. As a result we actively undertook the following remedial actions:

Immediately notified the Ministry of Environment and the Ministry of Health as per the Ontario Drinking Water Standards. Ensured a minimum chlorine residual in the distribution system of greater then 0.2 mg/L. Subsequent re-sampling indicated no adverse results.

Definitions & Terms

m^3 - Cubic Meter, $1m^3 = 1000$ litres
TCU - True Colour Units
$CaCO_3$ - Calcium Carbonate
mg - milligram
mg/L - milligrams per litre
ug/L - micrograms per litre
ng/L - nanograms per litre
NTU - Nephelometric Turbidity Units
MAC - Maximum Acceptable Concentration
IMAC - Interim Maximum Acceptable Concentration
Coliform Bacteria - a group of commonly occurring rod shaped bacteria. Their presence in a water sample is indicative of inadequate filtration and/or disinfection.
Fecal Coliform Bacteria - refers to a subgroup of coliform bacteria present in the digestive system of warm blooded animals and humans.
Heterotrophic Plate Count - a method of measuring bacterial content in water samples. Also known as Standard Plate Count.
Organic Parameter - a group of chemical compounds containing carbon.
Inorganic Parameter - a group of chemical compounds not containing carbon.
Raw Water - Surface or ground water available as a source of drinking water that has not received any treatment.

Required Testing

The Ontario Drinking Water Regulations and Certificates of Approval (C of A) set sampling requirements for the plant. All other sampling conforms to the Drinking Water Protection Regulation schedule for sampling and analysis. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases can pick up substances resulting from the presence of animals or from human activity. Your water is extensively tested for the presence of dozens of compounds. The results of all analytical tests are available at your municipal office. The following table lists all compounds analyzed.

QUARTERLY REPORT ON DRINKING WATER QUALITY

July-September 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Water Quality Test Results

Microbiological Parameters	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Containment
Total Coliform (counts/100ml)	0	48	0	09/30/02 07/01/02	n/a	no	Indicate possible presence of coliform
Escherichia Coliform (counts/100 ml)	0	48	0	09/30/02 07/01/02	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (count/100 ml)	500	32	14	09/30/02 07/01/02	2->600	yes	Indicator of deteriorating water quality if greater than 500
Parameters related to Microbiological Quality	**MAC or IMAC**	**# of Samples**	**# of Detectable Results**	**Sampling Dates (m/d/y)**	**Range**	**Exceedence?**	**Typical Source of Containment**
Turbidity (NTU)	1	Continuous	Continuous	09/30/02 07/01/02	0.03-0.34	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	09/30/02 07/01/02	0.80-1.69	no	Chlorine added for Disinfection
Free Chlorine-Distribution (mg/l min 0.05 & max. 4.0)	-	Grab samples weekly	Weekly	09/30/02 07/01/02	0.57-1.39	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)

Volatile Organics (ug/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Trihalomethanes - Plant	100	1	1	08/08//02	7.5	no	
Trihalomethanes - Dist.	100	1	1	08/08/02	7.5	no	
Benzene	5	1	1	08/08/02	<0.5	no	
Carbon Tetrachloride	5	1	1	08/08/02	<0.9	no	
Dichloromethane	50	1	1	08/08/02	<4	no	
1,2 - Dichlorobenzene	200	1	1	08/08/02	<0.4	no	
1, 4 - Dichlorobenzene	5	1	1	08/08/02	<0.4	no	
1,2 - Dichloroethane	IMAC=5	1	1	08/08/02	<0.7	no	
1,1 - Dichloroethylene	14	1	1	08/08/02	<0.5	no	
Ethylbenzene	24	1	1	08/08/02	<0.5	no	
Monochlorobenzene	80	1	1	08/08/02	<0.2	no	
Tetrachloroethylene	30	1	1	08/08/02	<0.3	no	
Toluene	24	1	1	08/08/02	<0.5	no	
Trichloroethlyene	50	1	1	08/08/02	<0.3	no	
Vinyl chloride	2	1	1	08/08/02	<0.5	no	
Xylene	300	2	2	08/08/02	<2.0	no	
Bromodichloromethane	n/a	1	1	08/08/02	1.6	no	
Bromoform	n/a	1	1	08/08/02	<0.4	no	
Chloroform	n/a	1	1	08/08/02	4	no	
Dibromochloromethane	n/a	1	1	08/08/02	0.5	no	

Pesticides & PCB (ug/L)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Alachlor	IMAC=5	1	1	08/08/02	<0.5	no	
Aldicarb	9	1	1	08/08/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	08/08/02	<0.012	no	
Atrazine	IMAC=5	1	1	08/08/02	<0.5	no	
Azinphos-methyl	20	1	1	08/08/02	<2.0	no	
Bendiocarb	40	1	1	08/08/02	<2.0	no	
Bromoxynil	IMAC=5	1	1	08/08/02	<0.5	no	
Carbaryl	90	1	1	08/08/02	<5.0	no	
Carbofuran	90	1	1	08/08/02	<5.0	no	
Chlordane	7	1	1	08/08/02	<0.012	no	
Chloropyrifus	90	1	1	08/08/02	<1.0	no	
Cyanazine	IMAC=10	1	1	08/08/02	<1.0	no	
Diaznon	20	1	1	08/08/02	<1.0	no	
Dicamba	120	1	1	08/08/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	08/08/02	<0.5	no	
Pesticides & PCB (ug/L)	MAC or	# of	# of	Sampling	Range	Exceedence?	Typical Source of

QUARTERLY REPORT ON DRINKING WATER QUALITY

July-September 2002, Crysler Water Plant - Serving the Village of Crysler

	IMAC	Samples	Detectable Results	Dates (m/d/y)			Contaminant
DDT + Metabolites	30	1	1	08/08/02	<0.024	no	
2,4 - Dichlorophenexy acid (2,4 -D)	IMAC=100	1	1	08/08/02	<1.0	no	
Diclofop-methyl	9	1	1	08/08/02	<0.9	no	
Dimethoate	IMAC=20	1	1	08/08/02	<2.5	no	
Dinoseb	10	1	1	08/08/02	<1.0	no	
Diquat	70	1	1	08/08/02	<7.0	no	
Diuron	150	1	1	08/08/02	<10.0	no	
Glyphosate	IMAC=280	1	1	08/08/02	<10.0	no	
Heprachlor + Heptachlor epoxide	3	1	1	08/08/02	<0.006	no	
Lindane	4	1	1	08/08/02	<0.006	no	
Malathion	190	1	1	08/08/02	<5.0	no	
Methoxychlor	900	1	1	08/08/02	<0.024	no	
Metolachlor	IMAC=50	1	1	08/08/02	<0.5	no	
Metribuzin	80	1	1	08/08/02	<5.0	no	
Paraquat	IMAC=10	1	1	08/08/02	<1.0	no	
Parathion	50	1	1	08/08/02	<1.0	no	
Pentachlorophenol	60	1	1	08/08/02	<0.5	no	
Phorate	IMAC=2	1	1	08/08/02	<0.5	no	
Picloram	IMAC=190	1	1	08/08/02	<5.0	no	
Polychlorinated Biphenyls	IMAC=3	1	1	08/08/02	<0.05	no	
Prometryne	IMAC=1	1	1	08/08/02	<0.25	no	
Simazine	IMAC=10	1	1	08/08/02	<1.0	no	
Temephos	IMAC=280	1	1	08/08/02	<10	no	
Terbufos	IMAC=1	1	1	08/08/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	1	08/08/02	<0.5	no	
Triallate	230	1	1	08/08/02	<1.0	no	
2,4,6-Trichlorophenol	5	1	1	08/08/02	<0.5	no	
2,4,5 - trichlorophenoxy acedic acid	IMAC=280	1	1	08/08/02	<1.0	no	
Trifluralin	45	1	1	08/08/02	<1.0	no	

Additional Parameters Non-Health Related (mg/L)	AO or OG	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
Calcium	---	1	1	01/21/02	57	no	
Magnesium	---	1	1	01/21/02	8	no	
Potassium	---	1	1	01/21/02	1	no	

Questions & Answers

Q. What is an Accredited Laboratory?

A. Accredited labs must have undergone an on-site assessment and performance review of their methods by the Canadian Association of Environmental and Analytical Laboratories. The Standards Council of Canada grants accreditation to the lab based on the recommendation of the CAEAL. The accreditation requirements are repeated every two years.

Q. What had to be done to meet the new regulations?

A. The Crysler Water Treatment Plant was following the Ontario Drinking Water Objectives (ODWO) before they became law, so little change was required to meet the new regulations. Our chlorine residual in the water leaving the plant was raised to slightly to achieve the (0.20 mg/L free chlorine) required level in the distribution system, and some changes were required in the way results are reported. This report to the public is also the result of the new regulations.

Q. What parameters did you test for?

A. Microbiological parameters, volatile organics, inorganics and pesticides and PCB's have been tested. The results are included in this report.

Q. Sometimes my water looks rusty or coloured. Why is that, and what should I do about it?

A. This is quite often caused when the tanks in older water heaters start to decay. If the colour is seen only in your hot water, this may be the problem. If the colour is also noticed in your cold water it could be coming from the water main. Various maintenance procedures in the distribution system - such as fire hydrant and valve maintenance, or main break repairs - require flushing of the water mains. Flushing can cause small particles of sediment to break off adding colour to the water. Please note that there is no health risk associated with this problem. This is usually only temporary, and opening your taps for a while to flush out your service line (the pipe from the water main to your house) should take care of the problem. Let the water run until the colour disappears.

CRYSLER WATER REQUIRED SAMPLES

JULY, AUGUST, SEPTEMBER 2002

Chemical Parameters

				Date Samples Collected	Initials	Date Results Received	Initials
Table B & D		Treated	✓				
NO2&NO3		Treated	✓				
System THM		Treated	✓				
Flouride	annual	Treated					

Bacti Parameters

Raw			
Well#1	E.Coli	Total Coli.	Background
Treated			
	E.Coli	Total Coli.	HPC
System			
2 Sites	E.Coli	Total Coli.	HPC 25%

			Date Samples Collected	Initials	Date Results Received	Initials
JULY 1	Bacti's	✓				
JULY 8	Bacti's	✓				
JULY 15	Bacti's	✓				
JULY 22	Bacti's	✓				
JULY 29	Bacti's	✓				
AUG. 5	Bacti's	✓				
AUG. 12	Bacti's	✓				
AUG. 19	Bacti's	✓				
AUG. 26	Bacti's	✓				
SEPT. 2	Bacti's	✓				
SEPT. 9	Bacti's	✓				
SEPT. 16	Bacti's	✓				
SEPT. 23	Bacti's	✓				
SEPT. 30	Bacti's					

Flouride Treated Water (Annual)
Lead Distribution System (Annual)
Table C Treated Water (Jan. 2003)
Sodium Treated Water (Jan. 2007)

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
ntario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220006764**
Project: Crysler WTP
Date Sampled: July 2, 2002
Date Received: July 3, 2002
Date Printed: July 05, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Satellite
Total Chlorine	mg/L	0.05		1.80	1.60	1.10
Free Chlorine	mg/L	0.05		1.60	1.40	1.00
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	absent	
Background bacteria	/100mL	1	3			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220007057**
Project: Crysler WTP
Date Sampled: July 8, 2002
Date Received: July 9, 2002
Date Printed: July 11, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Community Center	Dist. Water Tower
Total Chlorine	mg/L	0.05		1.03	0.90	1.00
Free Chlorine	mg/L	0.05		0.95	0.80	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	4	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220007324**
Project: Crysler WTP
Date Sampled: July 15, 2002
Date Received: July 16, 2002
Date Printed: July 18, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.00	1.20	0.90
Free Chlorine	mg/L	0.05		1.00	1.10	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
ntario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220007576**
Project: Crysler WTP
Date Sampled: July 22, 2002
Date Received: July 23, 2002
Date Printed: July 25, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Community Center	Dist. Mini Mart
Total Chlorine	mg/L	0.05		1.70	1.00	1.10
Free Chlorine	mg/L	0.05		1.60	0.80	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	44	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

For Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220007817**
Project: Crysler WTP
Date Sampled: July 29, 2002
Date Received: July 30, 2002
Date Printed: August 06, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Tower	Dist. Crysler Home Hardware
Total Chlorine	mg/L	0.05		1.80	1.00	1.00
Free Chlorine	mg/L	0.05		1.40	0.80	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	1			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2210859
Date: 2002-08-19
Date Submitted: 2002-08-09

Project: Crysler Wells

P.O. Number:
Matrix: Supply Water

		LAB ID:	198047				
		Sample Date:	2002-08-08				
		Sample ID:	CRW-02				
PARAMETER	**UNITS**	**MDL**	TREATEDWATER				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	0.17				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: _____

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

608 Norris Court, Kingston, ON, K7P 2R9

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2210859
Date: 2002-08-16
Date Submitted: 2002-08-09

Project: Crysler Wells

P.O. Number:
Matrix: Supply Water

		LAB ID:	198047				
		Sample Date:	2002-08-08				
		Sample ID:	CRW-02				
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Benzene	ug/L	0.5	<0.5 ✓				
Toluene	ug/L	0.5	<0.5				
Ethylbenzene	ug/L	0.5	<0.5				
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5				
Bromodichloromethane	ug/L	0.3	1.6				
Bromoform	ug/L	0.4	<0.4				
Carbon Tetrachloride	ug/L	0.9	<0.9				
Monochlorobenzene	ug/L	0.2	<0.2				
Chloroform	ug/L	0.5	4.0				
Dibromochloromethane	ug/L	0.3	0.5				
1,2-dichlorobenzene	ug/L	0.4	<0.4				
1,4-dichlorobenzene	ug/L	0.4	<0.4				
1,2-dichloroethane	ug/L	0.7	<0.7				
1,1-dichloroethylene	ug/L	0.5	<0.5				
Dichloromethane	ug/L	4.0	<4.0				
Tetrachloroethylene	ug/L	0.3	<0.3				
Trichloroethylene	ug/L	0.3	<0.3				
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	6.1				
Xylene; total	ug/L	2.0	<2.0				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		97				
1,2-dichloroethane-d4	%		101				
4-bromofluorobenzene	%		101				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL:

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1

608 Norris Court, Kingston, ON, K7P 2R9

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2210854
Date: 2002-08-19
Date Submitted: 2002-08-09
Project:
P.O. Number:
Matrix: Supply Water

			LAB ID:	198042			
			Sample Date:	2002-08-08			
			Sample ID:	CRW System			
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Bromodichloromethane	ug/L	0.3		1.8			
Bromoform	ug/L	0.4		<0.4			
Chloroform	ug/L	0.5		5.1			
Dibromochloromethane	ug/L	0.3		0.6			
TOTALS							
Trihalomethanes (total)	ug/L	2.0		7.5			
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%			97			

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL:

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1 608 Norris Court, Kingston, ON, K7P 2R9

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client:CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2210859
Date: 2002-08-29
Date Submitted: 2002-08-09

Project: Crysler Wells

Sample Matrix: Supply Water

		LAB ID:	198047			
		Sample Date:	8/8/02			
		Sample ID:	CRW-02			
PARAMETER	**UNITS**	**MDL**				
PESTICIDES & PCB's						
Alachlor	ug/L	0.5	<0.5			
Aldicarb	ug/L	5	<5			
Aldrin	ug/L	0.006	<0.006			
Aldrin + Dieldrin	ug/L	0.012	<0.012			
Atrazine	ug/L	0.5	<0.5			
Desethyl-atrazine	ug/L	0.5	<0.5			
Atrazine+Desethyl-atrazine	ug/L	1	<1			
Azinphos-methyl	ug/L	2	<2			
[illegible]diocarb	ug/L	2	<2			
[illegible]hoxynil	ug/L	0.5	<0.5			
Carbaryl	ug/L	5	<5			
Carbofuran	ug/L	5	<5			
Chlordane (Total)	ug/L	0.012	<0.012			
a-Chlorodane	ug/L	0.006	<0.006			
g-Chlorodane	ug/L	0.006	<0.006			
Oxychlorodane	ug/L	0.006	<0.006			
Chloropyrifos	ug/L	1	<1			
Cyanazine	ug/L	1	<1			
Diazinon	ug/L	1	<1			
Dicamba	ug/L	1	<1			
Dieldrin	ug/L	0.006	<0.006			
Diquat	ug/L	7	<7			
2,4-Dichlorophenol	ug/L	0.5	<0.5			
DDT + Metabolites	ug/L	0.024	<0.024			
o,p'-DDT	ug/L	0.006	<0.006			
p,p'-DDT	ug/L	0.006	<0.006			
2,4-D	ug/L	1	<1			
p,p'-DDE	ug/L	0.006	<0.006			

NOTE: mg/L=1000xug/L

MDL = Method Detection Limit

Comment:

APPROVAL:

146 Colonnade Road, Unit 8, Nepean, Ontario K2E 7Y1 Tel:(613)727-5692 Fax:(613)727-5222

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client:CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2210859
Date: 2002-08-29
Date Submitted: 2002-08-09

Project: Crysler Wells

Sample Matrix: Supply Water

	LAB ID:	198047				
	Sample Date:	8/8/02				
	Sample ID:	CRW-02				
PARAMETER	**UNITS**	**MDL**				
p,p'-DDD	ug/L	0.006	<0.006			
Diclofop-methyl	ug/L	0.9	<0.9			
Dimethoate	ug/L	2.5	<2.5			
Dinoseb	ug/L	1	<1			
Diuron	ug/L	10	<10			
Glyphosate	ug/L	10	<10			
Heptachlor	ug/L	0.006	<0.006			
Heptachlor epoxide	ug/L	0.006	<0.006			
Heptachlor + Hept. Epoxide	ug/L	0.012	<0.012			
[redacted]ane	ug/L	0.006	<0.006			
[redacted]athion	ug/L	5	<5			
Methoxychlor	ug/L	0.024	<0.024			
Metolachlor	ug/L	0.5	<0.5			
Metribuzin	ug/L	5	<5			
Paraquat	ug/L	1	<1			
Parathion	ug/L	1	<1			
Pentachlorophenol	ug/L	0.5	<0.5			
Phorate	ug/L	0.5	<0.5			
Picloram	ug/L	5	<5			
PCB's (total)	ug/L	0.05	<0.05			
Prometryne	ug/L	0.25	<0.25			
Simazine	ug/L	1	<1			
Temephos	ug/L	10	<10			
Terbufos	ug/L	0.7	<0.7			
2,3,4,6-Tetrachlorophenol	ug/L	0.5	<0.5			
Triallate	ug/L	1	<1			
2,4,6-Trichlorophenol	ug/L	0.5	<0.5			
Trifluralin	ug/L	1	<1			
2,4,5-T	ug/L	1	<1			

NOTE: mg/L=1000xug/L

MDL = Method Detection Limit

Comment:

APPROVAL:

146 Colonnade Road, Unit 8, Nepean, Ontario K2E 7Y1 Tel:(613)727-5692 Fax:(613)727-5222

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
ntario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220008069**
Project: Crysler WTP
Date Sampled: August 6, 2002
Date Received: August 7, 2002
Date Printed: August 09, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. SPS
Total Chlorine	mg/L	0.05		1.00	1.00	0.80
Free Chlorine	mg/L	0.05		1.00	0.80	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	6			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220008351**
Project: Crysler WTP
Date Sampled: August 12, 2002
Date Received: August 13, 2002
Date Printed: August 15, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1Treated	Dist. Home Hardware	Dist. Post Office
Total Chlorine	mg/L	0.05		1.40	0.80	0.90
Free Chlorine	mg/L	0.05		1.30	0.80	0.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	40	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]ario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220008618**
Project: Crysler WTP
Date Sampled: August 19, 2002
Date Received: August 20, 2002
Date Printed: August 22, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. S.P.S.
Total Chlorine	mg/L	0.05		1.40	1.10	1.00
Free Chlorine	mg/L	0.05		1.20	1.00	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220008934**
Project: Crysler WTP
Date Sampled: August 26, 2002
Date Received: August 27, 2002
Date Printed: August 29, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. Paul Provost Construction
Total Chlorine	mg/L	0.05		1.40	0.90	0.70
Free Chlorine	mg/L	0.05		1.30	0.70	0.60
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		>600	4	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

ADVERSE CONDITION

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009120**
Project: Crysler WTP
Date Sampled: August 29, 2002
Date Received: August 30, 2002
Date Printed: September 03, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification		
			Well #1 Raw -Special	Well #1 Treated -Special	Dist. Elevated Tank - Special
Total Chlorine	mg/L	0.05		0.98	0.93
Free Chlorine	mg/L	0.05		0.83	0.85
E. coli	/100mL	1	absent	absent	absent
Heterotrophic Plate Count	/mL	2	10	8	absent
Total Coliforms	/100mL	1	absent	absent	absent

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Certificate of Analysis

Client:
ntario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009147**
Project: Crysler WTP
Date Sampled: August 30, 2002
Date Received: August 30, 2002
Date Printed: September 03, 2002

Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification		
			Well #1 Raw Special	Well #1 Treated Special	Elevated Tank Special
Total Chlorine	mg/L	0.05		1.42	0.84
Free Chlorine	mg/L	0.05		1.39	0.71
E. coli	/100mL	1	absent	absent	
Heterotrophic Plate Count	/mL	2	absent	absent	absent
Total Coliforms	/100mL	1	absent	absent	absent

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009147**
Project: Crysler WTP
Date Sampled: August 30, 2002
Date Received: August 30, 2002
Date Printed: October 25, 2002

Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification		
			Well #1 Raw Special	Well #1 Treated Special	Elevated Tank Special
Total Chlorine	mg/L	0.05		1.42	0.84
Free Chlorine	mg/L	0.05		1.39	0.71
E. coli	/100mL	1	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent
Total Coliforms	/100mL	1	absent	absent	absent

CORRECTION
MAIL ONLY

This is a correction certificate and supersedes all previous reports of this number.

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009264**
Project: Crysler WTP
Date Sampled: September 3, 2002
Date Received: September 4, 2002
Date Printed: September 06, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated WTP	Home Hardware	Catholic School
Total Chlorine	mg/L	0.05		1.15	0.86	0.99
Free Chlorine	mg/L	0.05		1.05	0.68	0.84
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	180	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009539**
Project: Crysler WTP
Date Sampled: September 9, 2002
Date Received: September 10, 2002
Date Printed: September 12, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. Community Health Center
Total Chlorine	mg/L	0.05		1.33	0.85	0.68
Free Chlorine	mg/L	0.05		1.20	0.77	0.63
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		4	2	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Certificate of Analysis

Client:
ntario Clean Water Agency
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Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220009883**
Project: Crysler WTP
Date Sampled: September 16, 2002
Date Received: September 17, 2002
Date Printed: September 19, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Crysler Convenience
Total Chlorine	mg/L	0.05		1.06	0.97	0.96
Free Chlorine	mg/L	0.05		0.93	0.77	0.87
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	2	
Background bacteria	/100mL	1	3			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Certificate of Analysis

Client:
Ontario Clean Water Agency
[redacted]ustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220010232**
Project: Crysler WTP
Date Sampled: September 23, 2002
Date Received: September 24, 2002
Date Printed: September 26, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Crysler Tower	Dist. Paul Provost
Total Chlorine	mg/L	0.05		1.18	0.79	0.71
Free Chlorine	mg/L	0.05		1.00	0.67	0.57
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	absent	
Background bacteria	/100mL	1	1			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220010462**
Project: Crysler WTP
Date Sampled: September 30, 2002
Date Received: October 1, 2002
Date Printed: October 25, 2002

Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. SPS
Total Chlorine	mg/L	0.05		1.14	0.71	0.77
Free Chlorine	mg/L	0.05		1.11	0.61	0.66
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	50	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

CORRECTION

MAIL ONLY

This is a correction certificate an superceds all previous reports of this number.

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220010462**
Project: Crysler WTP
Date Sampled: September 30, 2002
Date Received: October 1, 2002
Date Printed: October 03, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. SPS
Total Chlorine	mg/L	0.05		1.14	0.71	0.77
Free Chlorine	mg/L	0.05		1.11	3.61	0.66
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	50	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

see correction.

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QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Crysler Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present the 2002 Fourth Quarter Report on drinking water quality. This report has been prepared in response to legislative changes brought about by "Operation Clean Water", an initiative of Ontario's Ministry of the Environment to ensure high quality drinking water for the residents of Ontario. The new regulations put into law what was formerly the Ontario Drinking Water Objectives (ODWO), and sets requirements for public waterworks with regard to sampling and testing, levels of treatment, licensing of staff, and notification of authorities and the public about water quality.

Further information on the Ontario Drinking Water Regulations can be found on the Ministry of the Environment web site at www.ene.gov.on.ca

Where to contact us for information

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Web site at www.ocwa.com

Client Services Representative:
John Kingsbury
Phone : (613) 774-3663
E-mail Address: jkingsbury@ocwa.com

Operations Manager:
Blair Henderson
Phone: (613) 448-3098
E-mail Address: bhenderson@ocwa.com

You may also contact the Township of North Stormont directly.
Rheal Charbonneau, Clerk - Treasurer
Phone: (613) 984-2821
E-mail Address: admin@townshipofnorthstormont.on.ca

Free copies of this report are available at the Township Office at 2 Victoria St. Berwick, or their website @ www.townshipofnorthstormont.on.ca

INSIDE THIS REPORT

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Introduction

We are proud to report that for the period October to December 2002, your water conformed to the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. The Ontario Clean Water Agency (OCWA) is dedicated to maximizing public health and safety through efficient and reliable operation of your water facility and distribution system.

Plant Description and Treatment Processes

Facility Name:	Crysler WTP & Distribution System
Total Design Capacity	1,685 cubic meters/day
Raw Water Source	Groundwater
Disinfection Method	Sodium Hypochlorite
Municipal Location	Municipal office, 2 Victoria Street, Berwick
Service Area	Village of Crysler
Service Population	600

Operational Description:

Raw Water Source: Two drilled wells, one duty and one standby, located on County Road 13 east of the Village of Crysler.

Low Lift Pumps: Two submersible pumps direct the water to a common header which feeds directly into the feeder line, approximately 5 kilometers in length, to the distribution grid and elevated storage tank with a storage capacity of 1,238 cubic meters.

Chemical Injection: Sodium Hypochlorite for disinfection and Hydrofluosilicic Acid for fluoridation are injected into the common header after the well pump discharge. The residuals are continuously monitored.

Distribution System: There are approximately 600 persons supplied with water from the Crylser Water Treatment System.

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Quality Control & Compliance With Provincial Regulations

This plant provides multiple barriers against bacteriological contamination. Bacteriological testing is carried out on raw water, treated water and distribution samples on a regular frequency. On-line analysers for chlorine residuals and turbidity ensure daily monitoring of water leaving the plant. Chlorine levels in the distribution system are also checked on a regular basis. More specialized testing occurs monthly and quarterly and includes Volatile Organics, Inorganics, Pesticides and PCB's.

OCWA uses internal compliance auditing techniques by teams from within the organization. OCWA operates the Crysler Water Treatment Facility in accordance with provincial regulations. Here is how we do it:

- Use of Accredited Labs. Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

- Use of Accredited Labs. Analytical tests to monitor your water quality are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

- Operation by Licensed Operators. Your water treatment plant is operated and maintained by the Ontario Clean Water Agency's competent and licensed staff. The mandatory licensing program for operators of drinking water facilities is regulated under the *Ontario Water Resources Act (OWRA)* Regulation 435/93. Licensing means that an individual meets the education and experience requirements and has successfully passed the certificate exam.

- Sampling and Analytical requirements. OCWA follows a sampling and analysis schedule required by *OWRA* Regulation 459/00, the Ontario Drinking Water Standards. More information on sampling and analysis including results are available in this report and from your municipal office.

- Adherence to Ministry Guidelines and Procedures. To ensure the protection of the health and operational excellence, the OCWA adheres to the guidelines and procedures developed by the Ministry of the Environment and the Ministry of Health.

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Annual Compliance Report

The Annual Compliance Report covers the period from January 1, 2002 to December 31, 2002. Copies of the report will be made available for inspection by any member of the public during normal business hours without charge at the Township Office. The Annual Compliance Rport for 2002 will be completed and made available not later than March 31, 2003.

The Compliance Report will include, at a minimum, the following:

- A statement as to compliance with all of the terms and conditions of the certificate and a detailed description of all of the measures taken to ensure compliance with the certificate, including and supporting data or other information;
- In the event of any non-compliance during the reporting period, details of the non-compliance as well as details of how and when any non-compliance was corrected;
- A summary and discussion of the quantity of water supplied during the reporting period compared to the rated capacity specified in the Certificate of Approval, including monthly average and maximum daily flows;
- A summary of records related to flow rate excedences, and a summary of analytical results of sampling required by the certificate, including raw water and in-process parameters as specified in the operations manual in accordance with the Certificate of Approval;
- A summary listing treatment chemicals used, including average dosage rates with special reference to any abnormal usages

Did We Exceed the Standards?

During the fourth quarter of 2002, no water samples exceeded the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00.

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Definitions & Terms

m^3 - Cubic Meter, 1 m^3 = 1000 litres
TCU - True Colour Units
$CaCO_3$ - Calcium Carbonate
mg - milligram
mg/L - milligrams per litre.
ug/L - micrograms per litre.
ng/L - nanograms per litre.
NTU - Nephelometric Turbidity Units.
MAC - Maximum Acceptable Concentration
IMAC - Interim Maximum Acceptable Concentration

Coliform Bacteria - a group of commonly occurring rod shaped bacteria. Their presence in a water sample is indicative of inadequate filtration and/or disinfection.
Fecal Coliform Bacteria - refers to a subgroup of coliform bacteria present in the digestive system of warm blooded animals and humans
Background Count - a method of measuring bacterial content in water samples
Heterotrophic Plate Count - a method of measuring bacterial content in water samples. Also known as Standard Plate Count.
Organic Parameter - a group of chemical compounds containing carbon
Inorganic Parameter - a group of chemical compounds not containing carbon
Raw Water - Surface or ground water available as a source of drinking water that has not received any treatment.

Required Testing

The Ontario Drinking Water Regulations and Certificates of Approval (C of A) set sampling requirements for the plant. All other sampling conforms to the Drinking Water Protection Regulation schedule for sampling and analysis. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases can pick up substances resulting from the presence of animals or from human activity. Your water is extensively tested for the presence of dozens of compounds. The results of all analytical tests are available at your municipal office. The following table lists all compounds analyzed.

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Crysler Water Quality Test Results

Microbiological Parameters	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates	Range	Exceedence	Typical Source of Contaminant
Total Coliform,Raw (CFU/100mL)	n/a	13	6	10/07 - 12/30 weekly	1-51	n/a	Indicate possible presence of fecal matter
E. Coli, Raw (CFU/100 mL)	n/a	13	0	10/07 - 12/30 weekly	n/a	n/a	Definite indicator of fecal contamination
Background Count, Raw (CFU/100 mL)	n/a	13	10	10/07 - 12/30 weekly	1-52	n/a	Indicator of adverse water quality
Total Coliform, Treated (CFU/100mL)	0	13	0	10/07 - 12/30 weekly	n/a	no	Indicate possible presence of fecal matter
E. coli, Treated (CFU/100 mL)	0	13	0	10/07 - 12/30 weekly	n/a	no	Definite indicator of fecal contamination
Hetrotrophic Plate Count, Treated (CFU/1 mL)	500	13	1	10/07 - 12/30 weekly	4	no	Indicator of adverse water quality
Total Coliform, Dist. (CFU/100mL)	0	26	0	10/07 - 12/30 weekly	n/a	no	Indicate possible presence of fecal matter
E. Coli, Dist. (CFU/100 mL)	0	26	0	10/07 - 12/30 weekly	n/a	no	Definite indicator of fecal contamination
Hetrotrophic Plate Count, Dist. (CFU/1 mL)	500	13	5	10/07 - 12/30 weekly	2-14	no	Indicator of adverse water quality

Parameters related to Microbiological Quality	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d)	Range	Exceedence	Typical Source of Contaminant
Turbidity (NTU)	1	Continuous	Continuous	10/01/02-12/31/02	0.03-0.28	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	10/01/02-12/31/02	0.60-1.47	no	Chlorine added for Disinfection
Free Chlorine-Distribution (mg/l min 0.05 & max. 4.0)	-	Grab samples weekly	Weekly	10/07/02-12/30/02	0.51-0.91	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)

Comments: MAC/IMAC values do not apply to Raw Water results. MOE recommend a level of at least 0.2 mg/l free chlorine residual in system to maintain microbiological quality in system. Adverse water quality occurs when the free chlorine residual is less than 0.05mg/l.

Inorganic Parameters (mg/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Lead - Distribution	0.01	1	1	01/21/02	<0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	10/21/02	<0.10	no	Natural component of water
Nitrite	1	1	1	10/21/02	<0.10	no	
Arsenic	IMAC= 0.025	1	1	01/21/02	<0.001	no	
Barium	1	1	1	01/21/02	0.08	no	
Boron	IMAC= 5.0	1	1	01/21/02	<0.05	no	
Cadmium	0.005	1	1	01/21/02	<0.0001	no	
Chromium (Total)	0.05	1	1	01/21/02	0.002	no	
Copper	1	1	1	01/21/02	0.037	no	
Iron	0.3	1	1	01/21/02	<0.01	no	
Lead	0.01	1	1	01/21/02	<0.001	no	
Manganese	0.05	1	1	01/21/02	0.01	no	
Mercury	0.001	1	1	01/21/02	<0.0001	no	
Selenium	0.01	1	1	01/21/02	<0.001	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Inorganic Parameters (mg/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Uranium	0.1	1	1	01/21/02	<0.001	no	
Sodium	200	1	1	01/21/02	4	no	
Fluoride	2.4	Continuous	Continuous	Continuous	0.5-0.8	no	

Volatile Organics (ug/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Trihalomethanes - Plant	100	1	1	10/21/02	6.5	no	
Trihalomethanes - Dist.	100	1	1	10/21/02	4.4	no	
Benzene	5	1	1	10/21/02	<0.5	no	
Carbon Tetrachloride	5	1	1	10/21/02	<0.9	no	
Dichloromethane	50	1	1	10/21/02	<4.0	no	
1,2 - Dichlorobenzene	200	1	1	10/21/02	<0.4	no	
1, 4 - Dichlorobenzene	5	1	1	10/21/02	<0.4	no	
1,2 - Dichloroethane	IMAC=5	1	1	10/21/02	<0.7	no	
1,1 - Dichloroethylene	14	1	1	10/21/02	<0.5	no	
Ethylbenzene	24	1	1	10/21/02	<0.5	no	
Monochlorobenzene	80	1	1	10/21/02	<0.2	no	
Tetrachloroethylene	30	1	1	10/21/02	<0.3	no	
Toluene	24	1	1	10/21/02	<0.5	no	
Trichloroethlyene	50	1	1	10/21/02	<0.3	no	
Vinyl chloride	2	1	1	10/21/02	<0.5	no	
Xylene	300	2	2	10/21/02	<2.0	no	
Bromodichloromethane	n/a	1	1	10/21/02	2	no	
Bromoform	n/a	1	1	10/21/02	<0.4	no	
Chloroform	n/a	1	1	10/21/02	4.5	no	
Dibromochloromethane	n/a	1	1	10/21/02	<0.3	no	

Pesticides & PCB (ug/L)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Alachlor	IMAC=5	1	1	10/21/02	<0.5	no	
Aldicarb	9	1	1	10/21/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	10/21/02	<0.012	no	
Atrazine	IMAC=5	1	1	10/21/02	<0.5	no	
Azinphos-methyl	20	1	1	10/21/02	<2.0	no	
Bendiocarb	40	1	1	10/21/02	<2.0	no	
Bromoxynil	IMAC=5	1	1	10/21/02	<0.5	no	
Carbaryl	90	1	1	10/21/02	<5.0	no	
Carbofuran	90	1	1	10/21/02	<5.0	no	
Chlordane	7	1	1	10/21/02	<0.012	no	
Chloropyrifus	90	1	1	10/21/02	<1.0	no	
Cyanazine	IMAC=10	1	1	10/21/02	<1.0	no	
Diaznon	20	1	1	10/21/02	<1.0	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

October - December 2002, Crysler Water Plant - Serving the Village of Crysler

Pesticides & PCB (ug/L) (cont'd)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Dicamba	120	1	1	10/21/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	10/21/02	<0.5	no	
DDT + Metabolites	30	1	1	10/21/02	<0.024	no	
2,4 - Dichlorophenexy acid (2,4 -D)	IMAC=100	1	1	10/21/02	<1.0	no	
Diclofop-methyl	9	1	1	10/21/02	<0.9	no	
Dimethoate	IMAC=20	1	1	10/21/02	<2.5	no	
Dinoseb	10	1	1	10/21/02	<1.0	no	
Diquat	70	1	1	10/21/02	<7.0	no	
Diuron	150	1	1	10/21/02	<10.0	no	
Glyphosate	IMAC=280	1	1	10/21/02	<10.0	no	
Heprachlor + Heptachlor epoxide	3	1	1	10/21/02	<0.012	no	
Lindane	4	1	1	10/21/02	<0.006	no	
Malathion	190	1	1	10/21/02	<5.0	no	
Methoxychlor	900	1	1	10/21/02	<0.024	no	
Metolachlor	IMAC=50	1	1	10/21/02	<0.5	no	
Metribuzin	80	1	1	10/21/02	<5.0	no	
Paraquat	IMAC=10	1	1	10/21/02	<1.0	no	
Parathion	50	1	1	10/21/02	<1.0	no	
Pentachlorophenol	60	1	1	10/21/02	<0.5	no	
Phorate	IMAC=2	1	1	10/21/02	<0.5	no	
Picloram	IMAC=190	1	1	10/21/02	<5.0	no	
Polychlorinated Biphenyls	IMAC=3	1	1	10/21/02	<0.05	no	
Prometryne	IMAC=1	1	1	10/21/02	<0.25	no	
Simazine	IMAC=10	1	1	10/21/02	<1.0	no	
Temephos	IMAC=280	1	1	10/21/02	<10	no	
Terbufos	IMAC=1	1	1	10/21/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	1	10/21/02	<0.5	no	
Triallate	230	1	1	10/21/02	<1.0	no	
2,4,6-Trichlorophenol	5	1	1	10/21/02	<0.5	no	
2,4,5 - trichlorophenoxy acedic acid	IMAC=280	1	1	10/21/02	<1.0	no	
Trifluralin	45	1	1	10/21/02	<1.0	no	

Additional Parameters Non-Health Related (mg/L)	AO or OG	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Calcium	---	1	1	01/21/02	57	no	
Magnesium	---	1	1	01/21/02	8	no	
Potassium	---	1	1	01/21/02	1	no	

Questions & Answers

Q. *What is an Accredited Laboratory?*

A. Accredited labs must have undergone an on-site assessment and performance review of their methods by the Canadian Association of Environmental and Analytical Laboratories. The Standards Council of Canada grants accreditation to the lab based on the recommendation of the CAEAL. The accreditation requirements are repeated every two years.

Q. *What had to be done to meet the new regulations?*

A. The Crysler Water Treatment Plant was following the Ontario Drinking Water Objectives (ODWO) before they became law, so little change was required to meet the new regulations. Our chlorine residual in the water leaving the plant was raised to slightly to achieve the (0.20 mg/L free chlorine) required level in the distribution system, and some changes were required in the way results are reported. This report to the public is also the result of the new regulations.

Q. *What parameters did you test for?*

A. Microbiological parameters, volatile organic, inorganic and pesticides & PCBs have been tested. The results are included in this report.

Q. *Sometimes my water looks rusty or coloured. Why is that, and what should I do about it?*

A. This is quite often caused when the tanks in older water heaters start to decay. If the colour is seen only in your hot water, this may be the problem. If the colour is also noticed in your cold water it could be coming from the water main. Various maintenance procedures in the distribution system - such as fire hydrant and valve maintenance, or main break repairs - require flushing of the water mains. Flushing can cause small particles of sediment to break off adding colour to the water. Please note that there is no health risk associated with this problem. This is usually only temporary, and opening your taps for a while to flush out your service line (the pipe from the water main to your house) should take care of the problem. Let the water run until the colour disappears.

CRYSLER WATER REQUIRED SAMPLES

OCTOBER,NOVEMBER,DECEMBER 2002

Chemical Parameters

				Date Samples Collected	Initials	Date Results Received	Initials
Table B & D	Well #1	Treated	✓				Dave
NO2&NO3	Well #1	Treated	✓				"
Table B & D	Well#2	Treated					
NO2&NO3	Well#2	Treated					
System THM		Treated	✓				"

Bacti Parameters

Raw			
Well#1	E.Coli	Total Coli.	Background
Treated			
	E.Coli	Total Coli.	HPC
System			
2 Sites	E.Coli	Total Coli.	HPC 25%

Oct.6	Bacti's	✓					
Oct.13	Bacti's	✓					
Oct.20	Bacti's	✓					
Oct.27	Bacti's	✓					
Nov.3	Bacti's						
Nov.10	Bacti's						
Nov.17	Bacti's						
Nov.24	Bacti's						
Dec.1	Bacti's						
Dec.8	Bacti's						
Dec.15	Bacti's						
Dec.22	Bacti's						
Dec.29	Bacti's						

Flouride Treated Water (Annual)			✓				
Lead Distribution System (Annual)			✓				Dave
Table C Treated Water (Jan. 2003)							"
Sodium Treated Water (Jan. 2007)							

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2214704
Date: 2002-10-29
Date Submitted: 2002-10-22

Project: Quarterly Chemicals

P.O. Number:
Matrix: Supply Water

		LAB ID:	212545				
		Sample Date:	2002-10-21				
		Sample ID:	CRW-02 Treat				
PARAMETER	**UNITS**	**MDL**	TREATEDWATER				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	<0.10				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: _____

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2214704
Date: 2002-10-25
Date Submitted: 2002-10-22

Project: Quarterly Chemicals

P.O. Number:
Matrix: Supply Water

		LAB ID:	212545				
		Sample Date:	2002-10-21				
		Sample ID:	CRW-02 Treat				
PARAMETER	**UNITS**	**MDL**					
BTEX / 624 / PURGEABLE HYDROCARBONS							
Benzene	ug/L	0.5	<0.5				
Toluene	ug/L	0.5	<0.5				
Ethylbenzene	ug/L	0.5	<0.5				
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5				
Bromodichloromethane	ug/L	0.3	2.0				
Bromoform	ug/L	0.4	<0.4				
Carbon Tetrachloride	ug/L	0.9	<0.9				
Chlorobenzene	ug/L	0.2	<0.2				
Chloroform	ug/L	0.5	4.5				
Dibromochloromethane	ug/L	0.3	<0.3				
1,2-dichlorobenzene	ug/L	0.4	<0.4				
1,4-dichlorobenzene	ug/L	0.4	<0.4				
1,2-dichloroethane	ug/L	0.7	<0.7				
1,1-dichloroethylene	ug/L	0.5	<0.5				
Dichloromethane	ug/L	4.0	<4.0				
Tetrachloroethylene	ug/L	0.3	<0.3				
Trichloroethylene	ug/L	0.3	<0.3				
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	6.5				
Xylene; total	ug/L	2.0	<2.0				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		97				
1,2-dichloroethane-d4	%		99				
4-bromofluorobenzene	%		100				

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: MW

8-146 Colonnade Road, Ottawa, ON, K2E 7Y1 608 Norris Court, Kingston, ON, K7P 2R9

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2214704
Date: 2002-11-06
Date Submitted: 2002-10-22

Project: Quarterly Chemicals

Sample Matrix: Supply Water

		LAB ID:	212545				
		Sample Date:	2002-10-21				
		Sample ID:	CRW-02 Treat				
PARAMETER	**UNITS**	**MDL**					
PESTICIDES & PCB's							
Alachlor	ug/L	0.5	<0.5				
Aldicarb	ug/L	5	<5				
Aldrin	ug/L	0.006	<0.006				
Aldrin + Dieldrin	ug/L	0.012	<0.012				
Atrazine	ug/L	0.5	<0.5				
Desethyl-atrazine	ug/L	0.5	<0.5				
Atrazine+Desethyl-atrazine	ug/L	1	<1				
Azinphos-methyl	ug/L	2	<2				
Bendiocarb	ug/L	2	<2				
Bromoxynil	ug/L	0.5	<0.5				
Carbaryl	ug/L	5	<5				
Carbofuran	ug/L	5	<5				
Chlordane (Total)	ug/L	0.012	<0.012				
a-Chlorodane	ug/L	0.006	<0.006				
g-Chlorodane	ug/L	0.006	<0.006				
Oxychlorodane	ug/L	0.006	<0.006				
Chloropyrifos	ug/L	1	<1				
Cyanazine	ug/L	1	<1				
Diazinon	ug/L	1	<1				
Dicamba	ug/L	1	<1				
Dieldrin	ug/L	0.006	<0.006				
Diquat	ug/L	7	<7				
2,4-Dichlorophenol	ug/L	0.5	<0.5				
DDT + Metabolites	ug/L	0.024	<0.024				
o,p'-DDT	ug/L	0.006	<0.006				
p,p'-DDT	ug/L	0.006	<0.006				
2,4-D	ug/L	1	<1				
p,p'-DDE	ug/L	0.006	<0.006				

NOTE: mg/L (ppm)=1000xug/L (ppb) MDL = Method Detection Limit

Comment:

APPROVAL: MW

146 Colonnade Road, Unit 8, Nepean, Ontario K2E 7Y1 Tel:(613)727-5692 Fax:(613)727-5222

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2214704
Date: 2002-11-06
Date Submitted: 2002-10-22

Project: Quarterly Chemicals

Sample Matrix: Supply Water

		LAB ID:	212545			
		Sample Date:	2002-10-21			
		Sample ID:	CRW-02 Treat			
PARAMETER	**UNITS**	**MDL**				
p,p'-DDD	ug/L	0.006	<0.006			
Diclofop-methyl	ug/L	0.9	<0.9			
Dimethoate	ug/L	2.5	<2.5			
Dinoseb	ug/L	1	<1			
Diuron	ug/L	10	<10			
Glyphosate	ug/L	10	<10			
Heptachlor	ug/L	0.006	<0.006			
Heptachlor epoxide	ug/L	0.006	<0.006			
Heptachlor + Hept. Epoxide	ug/L	0.012	<0.012			
Lindane	ug/L	0.006	<0.006			
Malathion	ug/L	5	<5			
Methoxychlor	ug/L	0.024	<0.024			
Metolachlor	ug/L	0.5	<0.5			
Metribuzin	ug/L	5	<5			
Paraquat	ug/L	1	<1			
Parathion	ug/L	1	<1			
Pentachlorophenol	ug/L	0.5	<0.5			
Phorate	ug/L	0.5	<0.5			
Picloram	ug/L	5	<5			
PCB's (total)	ug/L	0.05	<0.05			
Prometryne	ug/L	0.25	<0.25			
Simazine	ug/L	1	<1			
Temephos	ug/L	10	<10			
Terbufos	ug/L	0.7	<0.7			
2,3,4,6-Tetrachlorophenol	ug/L	0.5	<0.5			
Triallate	ug/L	1	<1			
2,4,6-Trichlorophenol	ug/L	0.5	<0.5			
Trifluralin	ug/L	1	<1			
2,4,5-T	ug/L	1	<1			

NOTE: mg/L (ppm)=1000xug/L (ppb) MDL = Method Detection Limit

Comment:

APPROVAL: MW

146 Colonnade Road, Unit 8, Nepean, Ontario K2E 7Y1 Tel:(613)727-5692 Fax:(613)727-5222

ACCUTEST LABORATORIES LTD.

REPORT OF ANALYSIS

Client: CRYSLER WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number: 2214705
Date: 2002-10-25
Date Submitted: 2002-10-22

Project: Quarterly Chemicals

P.O. Number:
Matrix: Supply Water

		LAB ID:	212546			
		Sample Date:	2002-10-21			
		Sample ID:	CRW-System			
PARAMETER	**UNITS**	**MDL**				
BTEX / 624 / PURGEABLE HYDROCARBONS						
Bromodichloromethane	ug/L	0.3	<0.3			
Bromoform	ug/L	0.4	<0.4			
Chloroform	ug/L	0.5	4.4			
Dibromochloromethane	ug/L	0.3	<0.3			
TOTALS						
Trihalomethanes (total)	ug/L	2.0	4.4			
BTEX / 624 Surrogate Recoveries						
Toluene-d8	%		97			

MDL = Method Detection Limit INC = Incomplete
Comment:

APPROVAL: _____

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608 Norris Court, Kingston, ON, K7P 2R9

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220010889**
Project: Crysler WTP
Date Sampled: October 7, 2002
Date Received: October 8, 2002
Date Printed: October 10, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Ecole Notre Dame	Home Hardware
Total Chlorine	mg/L	0.05		1.20	0.87	0.61
Free Chlorine	mg/L	0.05		1.18	0.78	0.51
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	20			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[O]ntario Clean Water Agency
[1] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220011205**
Project: Crysler WTP
Date Sampled: October 15, 2002
Date Received: October 16, 2002
Date Printed: October 18, 2002

Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Elevated Tank	Dist. Crysler Satellite
Total Chlorine	mg/L	0.05		0.80	0.76	0.86
Free Chlorine	mg/L	0.05		0.78	0.65	0.66
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	2	
Background bacteria	/100mL	1	52			
Total Coliforms	/100mL	1	51	absent	absent	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
Ontario Clean Water Agency
[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220011479**
Project: Crysler WTP
Date Sampled: October 21, 2002
Date Received: October 22, 2002
Date Printed: October 24, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. SPS	Dist. Paul Provost Const.
Total Chlorine	mg/L	0.05		0.94	0.76	0.62
Free Chlorine	mg/L	0.05		0.80	0.67	0.51
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	2	
Background bacteria	/100mL	1	1			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Michael Ziebell, General Manager

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Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220011850**
Project: Crysler WTP
Date Sampled: October 28, 2002
Date Received: October 29, 2002
Date Printed: October 31, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Elevated Tank	Dist. Mini-Mart
Total Chlorine	mg/L	0.05		0.99	0.79	0.89
Free Chlorine	mg/L	0.05		0.90	0.70	0.74
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		4	absent	
Background bacteria	/100mL	1	42			
Total Coliforms	/100mL	1	7	absent	absent	absent

Caduceon Environmental Laboratories
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Tel: (613)526-0123, Fax: (613)526-1244

Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]ntario Clean Water Agency
[illegible] Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220012193**
Project: Crysler WTP
Date Sampled: November 4, 2002
Date Received: November 5, 2002
Date Printed: November 07, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. SPS
Total Chlorine	mg/L	0.05		1.22	0.93	0.98
Free Chlorine	mg/L	0.05		1.14	0.89	0.91
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	14	
Background bacteria	/100mL	1	11			
Total Coliforms	/100mL	1	5	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
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For Michael Ziebell, General Manager

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220012680**
Project: Crysler WTP
Date Sampled: November 12, 2002
Date Received: November 13, 2002
Date Printed: November 15, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Elevated Tank	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.11	0.91	0.90
Free Chlorine	mg/L	0.05		1.06	0.80	0.79
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	14	
Background bacteria	/100mL	1	12			
Total Coliforms	/100mL	1	1	absent	absent	absent

Caduceon Environmental Laboratories
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Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[redacted]tario Clean Water Agency
[redacted]Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220012902**
Project: Crysler WTP
Date Sampled: November 18, 2002
Date Received: November 19, 2002
Date Printed: November 21, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well # 1 Raw	Well # 1 Treated	Dist. Catholic School	Satellite System
Total Chlorine	mg/L	0.05		0.97	0.77	0.74
Free Chlorine	mg/L	0.05		0.87	0.70	0.61
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	17			
Total Coliforms	/100mL	1	1	absent	absent	absent

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Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

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Certificate of Analysis

Client:
Ontario Clean Water Agency
[redacted]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220013263**
Project: Crysler WTP
Date Sampled: November 25, 2002
Date Received: November 26, 2002
Date Printed: November 28, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated 15642 County Rd	Dist. Home Hardware	Dist. SPS
Total Chlorine	mg/L	0.05		1.04	0.65	0.71
Free Chlorine	mg/L	0.05		1.00	0.61	0.63
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	4			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
[illegible]tario Clean Water Agency
[illegible]ndustrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220013596**
Project: Crysler WTP
Date Sampled: December 2, 2002
Date Received: December 3, 2002
Date Printed: December 05, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Elevated Tank	Dist. Crysler Satelite
Total Chlorine	mg/L	0.05		1.00	0.76	0.76
Free Chlorine	mg/L	0.05		0.90	0.70	0.66
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	2	
Background bacteria	/100mL	1	4			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Krystyna Pipin, Laboratory Supervisor

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:
Ontario Clean Water Agency
Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220013979**
Project: Crysler WTP
Date Sampled: December 9, 2002
Date Received: December 10, 2002
Date Printed: December 12, 2002
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Ecole Catholic	Dist. Home Hardware
Total Chlorine	mg/L	0.05		0.90	0.70	0.65
Free Chlorine	mg/L	0.05		0.85	0.64	0.59
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	7			
Total Coliforms	/100mL	1	1	absent	absent	absent

Caduceon Environmental Laboratories
2378 Holly Lane, Ottawa, Ontario, K1V 7P1, Canada
Tel: (613)526-0123, Fax: (613)526-1244

Krystyna Pipin, Laboratory Supervisor

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Certificate of Analysis

Report: 220014317
Project: Crysler WTP
Date Sampled: December 16, 2002
Date Received: December 17, 2002
Date Printed: December 19, 2002
Matrix: Drinking Water

Client:
Ontario Clean Water Agency
5 Industrial Dr.
Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Post Office	Dist. SPS
Total Chlorine	mg/L	0.05		1.08	0.90	0.92
Free Chlorine	mg/L	0.05		1.04	0.81	0.85
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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ntario Clean Water Agency
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Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220014630**
Project: Crysler WTP
Date Sampled: December 23, 2002
Date Received: December 23, 2002
Date Printed: December 27, 2002

Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well #1 Raw	Well #1 Treated	Dist. Water Tower	Dist. Home Hardware
Total Chlorine	mg/L	0.05		1.16	0.99	0.70
Free Chlorine	mg/L	0.05		1.12	0.90	0.62
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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Client:
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Chesterville, ON
K0C 1H0

Attention: **Dave Markell**

Report: **220014785**
Project: Crysler WTP
Date Sampled: December 30, 2002
Date Received: December 30, 2002
Date Printed: January 02, 2003
Matrix: Drinking Water

Parameter	Unit	MDL	Sample Identification			
			Well # 1 Raw	Well # 1 Treated	Dist. Crysler Satellite	Dist. Sewage Pumping Station
Total Chlorine	mg/L	0.05		1.15	0.86	0.89
Free Chlorine	mg/L	0.05		1.10	0.74	0.83
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	10			
Total Coliforms	/100mL	1	absent	absent	absent	absent

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