ARCHIVED

MUNICIPAL WATER QUALITY REPORTS

FINCH WATER



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 NWH To Company Fax Number From Date **Number of Pages** (including this page) 210003912 Subject 6e



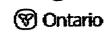
Ministère de l'Environnement

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 ☐ Phys/Chem ☐ Exceeds	MAC Radiological D Exceeds IMAC
Water Quality	
ORAL NOTIFICATION to SPILLS ACTION CENTRE by LA	BORATORY
Date: Time:	Ву:
Laboratory Name:	Laboratory Emergency Contact Name
Address	Position
Email address	Phone # Fax #
Waterworks Name	Waterworks Emergency Contact
Works #	Name
Location	Position
Email Address	Phone # Fax #
NOTIFICATION OF WATER WORKS OWNER	NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH
Person Contacted	Person Contacted
Position	Position
Date Time	Date Time
Laboratory Written Notification Prepared by: Name (pleas (Lab Results must be attached using Part 3 of form)	e print)
Signature	Date
PART 2 - NOTIFICATION BY WATER WORKS OWNE	J.R
PART 2 - NOTIFICATION BY WATER WORKS OWNE Indicators of Adverse Phys/Chem	<u>-</u>
	C Radiological Exceeds IMAC
Indicators of Adverse Water Quality Phys/Chem Exceeds MA Exceeds IM This notification is for operational problems identified at the waterwo	AC Radiological Exceeds IMAC CofA/Order Exceeds Limit
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IM This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER	AC Radiological Exceeds IMAC CofA/Order Exceeds Limit
Indicators of Adverse Water Quality Phys/Chem Exceeds MA Exceeds IM This notification is for operational problems identified at the waterwo	Radiological
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IM This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER	AC CofA/Order Exceeds IMAC rks; there is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT
Indicators of Adverse	Radiological
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IM This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 710003912 Works Person Providing Oral Notification Rank Market (Radiological Exceeds IMAC CofA/Order Exceeds Limit rks; there is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Dave Marke((Position Process Tech. Phone # 613-448-3088 Fax # 613-448-1616
Indicators of Adverse Water Quality This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date DCT 31/DD Time 16:00 Waterworks Name Finch Water Works # 210003912 Works Person Providing Oral Notification Dave Make!	Radiological Exceeds IMAC CofA/Order Exceeds Limit rks; there is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Dave Markel (Position Process Tech. Phone # 613-748-3088 Fax # 613-448-1616 NER REMEDIAL ACTIONS TAKEN BY OWNER:
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IM This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 710003912 Works Person Providing Oral Notification Rank Market (Radiological
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IM. This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 210003912 Works Person Providing Oral Notification Dave Make!	Radiological Exceeds IMAC CofA/Order Exceeds Limit rks; there is no Laboratory notification associated with this report WATERWORKS EMERGENCY CONTACT Name Dave Markel (Position Process Tech. Phone # 613-748-3088 Fax # 613-448-1616 NER REMEDIAL ACTIONS TAKEN BY OWNER:
Indicators of Adverse Water Quality Exceeds MA Water Quality Exceeds IM. This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 710003912 Works Person Providing Oral Notification Dane Make II MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OW Date OCT 31/02 Time 16:00 Person Contacted Adalia	Radiological
Indicators of Adverse Water Quality	Radiological
Indicators of Adverse Water Quality Exceeds MA Water Quality Exceeds IM. This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 210003912 Works Person Providing Oral Notification Dave Makell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OW Date Oct 31/02 Time 16:00 Person Contacted Adalia Position Special Project	Radiological
Indicators of Adverse Water Quality Exceeds MA Water Quality Exceeds IM. This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 210003912 Works Person Providing Oral Notification Dave Makell MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OW Date Oct 31/02 Time 16:00 Person Contacted Addic Position Special Project Phone # 800-267-7 (20 Fax # 613-733-7532)	Radiological Exceeds IMAC CofA/Order Exceeds Limit Exceeds Limit Exsert Exceeds Limit Exsert Exceeds Limit Exsert Exsert Exceeds Limit Exsert Exsert
Indicators of Adverse Water Quality Exceeds MA Water Quality Exceeds IM. This notification is for operational problems identified at the waterwo SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date OCT 31/02 Time 16:00 Waterworks Name Finch Water Works # 710003912 Works Person Providing Oral Notification Dave Makel (MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OW Date Oct 31/02 Time 16:00 Person Contacted Adalia Position Special Project Phone # 800-267-7120 Fax # 613-933-7538 Works Person Providing Oral Notification Dave Makel (Radiological Exceeds IMAC CofA/Order Exceeds Limit Exc

Page _____ of ____



Ministère de l'Environnement Revised - September, 2002

PART 3:

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

Microbiological Testing

Lab Sample	Sample Field	Date/Time Collected	Sample Type / Location		Count/100mL		P-A/100mL Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)
			1							

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

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
	ON LINE	Cont.	Turbidity	Turkidity	1.9	NTU		Continious.	

Results Authorized By:	Authorization Date:
For Ministry Use Only:	Occurrence Report #:

1402-047 (07/00)

Page _____ of ____

Log for OCWA 613 448-1616 Oct 31 2002 4:19pm

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 31 4:18pm Fax Sent 18002686061 0:49 3 OK

Log for OCWA 613 448-1616 Oct 31 2002 4:22pm

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 31 4:19pm Fax Sent 16139337930 2:20 3 OK



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

То	MOH MOE
Company	
Fax Number	613-933-7930 1-300-268-6061
From	Dave
Date	00-29/02.
Number of Pages	(including this page)
Subject	Finch
- Work	-5 + 210003912
- Turb	exceedances over 1 NTU
- Filter	being replaced
- Filter	s logpassed in interm. presently in 3 being superchlorinated wash text tomorrow & bacti sampline
- Media	presently in 3 being superchlorinated
- back	wash text tomorrow & back sampline

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1402-047 (07/00)

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PART 1 – NOTIFICATION BY LABORATORY	
Indicators of Adverse ☐ Phys/Chem ☐ Exceeds MA	
Water Quality Exceeds IMA	
ORAL NOTIFICATION to SPILLS ACTION CENTRE by LABOR	ATURY
Date: Time:	By:
Laboratory Name:	Laboratory Emergency Contact Name
Address	Position
Email address	Phone # Fax #
Waterworks Name	Waterworks Emergency Contact
Works #	Name
Location	Position
Email Address	Phone # Fax #
NOTIFICATION OF WATER WORKS OWNER	NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH
Person Contacted	Person Contacted Position
Position	
Date Time Laboratory Written Notification Prepared by: Name (please print	
(Lab Results must be attached using Part 3 of form)	
Signature	Date
PART 2 - NOTIFICATION BY WATER WORKS OWNER	
Indicators of Adverse	Radiological 🗆 Exceeds IMAC
Water Quality	CofA/Order
This notification is for operational problems identified at the waterworks; the	
SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date 10 + 15 / 02 Time 15 02	WATERWORKS EMERGENCY CONTACT Name Dave Markell
	0 - 1
Waterworks Name Finch Water	Position Tracess Jech
Works# 21 0003912	Phone # 613 - 448-3098 Fax # 613-448-1616
Works Person Providing Oral Notification Daye / Your H / MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	REMEDIAL ACTIONS TAKEN BY OWNER:
Date DA 25/07 Time 15:00	Resampling Initiated
Add Lander	Increase Chlorine Dose Yes No Flushing Mains Yes No
Position Special Projects	Other Actions Taken
Phone # 267-7120 Fax # \$13-933-7930	Describe:
Works Person Providing Oral Notification Dave Markel	Other information attached \(\square\)
Water Works Written Notification Prepared by: Name (please print)	Dave Markell
Signature Awl Naulul	Date Oct 29/02
	ccurrence Report #:



Ministère de l'Environnement

PART 3:

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

Microbiological Testing

Lab Sample	Sample Field	Date/Time Collected	Sample Type / Location	Membrane Filtration Count/100mL		P-A/100mL Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read	
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)

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

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
		ON LINE	Cont.	Turbidity	1.7	NTU		coutin ous	

Results Authorized By:	Authorization Date:
For Ministry Use Only:	Occurrence Report #:

1402-047 (07/00)



Log for OCWA 613 448-1616 Oct 29 2002 3:20pm

Last Transaction

Date Time Type Identification Duration Pages Result

Oct 29 3:19pm Fax Sent 18002686061 0:48 3 OK

Log for OCWA 613 448-1616 Oct 29 2002 3:18pm

T	T	
Last	Transa	action

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 29 3:15pm Fax Sent 16139337930 2:20 3 OK



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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	(a+
То	MOH MOE. Gel con
Company) 03.
Fax Number	933-7930 800-268-6061
From	Dave Markell
Date	Oct 26/02
Number of Pages	(including this page)
Subject	Finch Water Treatment Plant. 210003912
- New Sal	nd filters are being installed.
- Presentl	y by passing filters
- On line	y by passing filters turbidinates phows 1.5 → 2.0 NTU
Turbidit	
	cten from source (well #1)
	results Since Jan. 2002
	li at any time, on one occasion
	d T coliform, No counts of HPC or
	nd greater than 5.
	osage has been increased and
	out plant will be kept at 2.4 mg/L
O.S hig	her than normal.
	will take 5 days.
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PART 1 – NOTIFICATION BY LABORATORY Indicators of Adverse □ Phys/Chem	□ Exceeds MAC	R	adiological	☐ Exceeds IMAC
·	☐ Exceeds MAC		ofA/Order	☐ Exceeds Limit
ORAL NOTIFICATION to SPILLS ACTION CENT				
Date: Time:		Ву:		
Laboratory Name:		Laboratory Emergency Con	ntact Name	
Address		Position		
Email address		Phone #		Fax #
Waterworks Name		Waterworks Emergency Co	intact	
Works #		Name		
Location	•	Position		
Email Address		Phone #		Fax #
NOTIFICATION OF WATER WORKS OWNER			OCAL MEDI	CAL OFFICER OF HEALTH
Person Contacted		Person Contacted		
Position		Position		
Date Time Laboratory Written Notification Prepared by:	Name (please print)	Date		Time
(Lab Results must be attached using Part 3 of form)	rtanic (picase print)			
Signature			Date	
PART 2 - NOTIFICATION BY WATER WORK	S OWNER			
Indicators of Adverse Phys/Chem □ E		R	adiological	☐ Exceeds IMAC
Water Quality / □ E	xceeds IMAC		ofA/Order	☐ Exceeds Limit
This notification is for operational problems identified at				
SPILLS ACTION CENTRE ORAL NOTIFICATION BY O		WATERWORKS EMEI	RGENCY CO	NTACT / /1 //
Date Oct. 26/07 Time 14-30		Name		Jean Ville
Waterworks Name Finch Water	1	Position Proces	s Tec	
Works# 210003912 Jan () lent	Phone # 613 - 449	690	Fax # 613-448-1616
Works Person Providing Oral Notification				
MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION		REMEDIAL ACTIONS	TAKEN BY	OWNER:
Date 0 + 2 / 102 Time 1/.35	<u> </u>	Resampling Initiated	☐ Yes	s 🗆 No
		Increase Chlorine Dose	∑ Ye:	
Person Contacted (hvistine		Flushing Mains	☐ Ye	s □ No
Position Answering Slovice		Other Actions Taken	☐ Ye	s 🗆 No
Phone # 18002677120 Fax # 937-		Describe:		
Works Person Providing Oral Notification	4	Other information	tion attac	ched 🛚
Water Works Written Notification Prepared by: Nam	e (please print)	1.4	- T	Jan Deilluck
Signature	Sound	ett-	Date Oct	1. 2-6/02
For Ministry Use Only:		urrence Report #:		



Ministère de l'Environnement Revised - September, 2002

PART 3:

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

Microbiological Testing

Lab Sample	Sample Field	Date/Time Collected	Sample Type / Location		nbrane F Count/10	iltration 0mL	Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)
						_				

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

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
			ON LINE	Turbidity	1.7	NTU		Continious.	
				/					
									<u>-</u>

Results Authorized By:	Authorization Date:
For Ministry Use Only:	Occurrence Report #:

Page 3 of 3

Log for OCWA 613 448-1616 Oct 27 2002 5:36pm

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 27 5:35pm Fax Sent 1 800 268-6061 0:50 3 OK

Log for OCWA 613 448-1616 Oct 27 2002 5:34pm

T .	CC .	. •
1 act	Tran	saction
		MACATOR

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 27 5:32pm Fax Sent 1 613 933-7930 2:25 3 OK



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

4,

То	MOH	MOE.	
Company			
Fax Number	933-7930	800-268-60)b(
From	Dave Marke	٤((
Date	Oct 25/0.	2	
Number of Pages	(including th	nis page)	
Subject	Finch Water T	Treatment Plan	t. 210003912
- New Sai	nd filters are	being insta	alled.
- Presentl	y by passing	filters	
- On line	turbidineter.	shows 1-5-	> 2.0 NTU
Turbidit			
	•	rce (well #1	
	results Since		
		time, on or	le occasion
		, No counts	
	nd greater t	,	
		een increas	ed and
•	•	il be kept a	
0.5 hig	her than no	rmal.	
	will take	5 days.	ee. The contents are confidential

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Ontario

Ministry of the Environment Ministère

de l'Environnement

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PART 1 – NOTIFICATION BY LABORATORY Indicators of Adverse □ Phys/Chem □ Exceeds MA	C Radiological				
Indicators of Adverse ☐ Phys/Chem ☐ Exceeds MA Water Quality ☐ Exceeds IMA	<u> </u>				
ORAL NOTIFICATION to SPILLS ACTION CENTRE by LABOR					
Date: Time:	By:				
Laboratory Name:	Laboratory Emergency Contact Name				
Address	Position				
Email address	Phone # Fax #				
Waterworks Name	Waterworks Emergency Contact				
Works #	Name				
Location	Position				
Email Address	Phone # Fax #				
NOTIFICATION OF WATER WORKS OWNER	NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH				
Person Contacted	Person Contacted Position				
Position	Date Time				
Date Time Laboratory Written Notification Prepared by: Name (please prin					
(Lab Results must be attached using Part 3 of form)					
Signature	Date				
PART 2 - NOTIFICATION BY WATER WORKS OWNER					
Indicators of Adverse Phys/Chem □ Exceeds MAC	Radiological 🗆 Exceeds IMAC				
Water Quality ☐ Exceeds IMAC	CofA/Order				
This notification is for operational problems identified at the waterworks; the	والمراجع والمنافق				
SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER Date りょいくりょう Time 1/: ? つ	Name Dave Marke ()				
	Position Process Tech				
Waterworks Name Finch Water	Phone # 613 - 448-3088 Fax # 613-448-1616				
Works# 2(0003912	rax # 6 (> 4 (9 ×) () rax # 6 (> 4 (0) () ()				
Works Person Providing Oral Notification Dave Mark ((MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	REMEDIAL ACTIONS TAKEN BY OWNER:				
Date 0 25/02 Time 1/36	Resampling Initiated				
	Increase Chlorine Dose Yes No				
Person Contacted Adding	Flushing Mains				
Phone # / 8002677120 Fax # 937-7530	Other Actions Taken				
	Other information attached				
Works Person Providing Oral Notification Dave Mark!					
	Dave Marke (1				
Signature Warter	Date Oct, 25/02				
For Ministry Use Only: Oc	currence Report #:				



Ministère de l'Environnement Revised - September, 2002

PART 3:

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

Microbiological Testing

Lab Sample	Sample Field	Date/Time Collected	Sample Type / Location	1	nbrane F Count/10		P-A/100mL Presumptive/			Date - Plates Prepared	Date - Plates Read
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli □ Fecal C. □	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)	

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

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y) (: am pm)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
			ON LINE	Turbidity	1.7	NTU		Continious.	
				/					

Results Authorized By:	Authorization Date:
<u></u>	
For Ministry Use Only:	Occurrence Report #:

1402-047 (07/00)

Page 3 of 3

Log for OCWA 613 448-1616 Oct 25 2002 11:42am

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I act	Trans	action
LAUDE	TIGHTS	MOUDI

Date Time Type Identification Duration Pages Result

Oct 25 11:42am Fax Sent 18002686061 0:47 3 OK

Log for OCWA 613 448-1616 Oct 25 2002 11:45am

Last Transaction

Date Time Type Identification Duration Pages Result

Oct 25 11:43am Fax Sent 16139337930 2:22 3 OK



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

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То	MOH MOE.
Company	
Fax Number	933-7930 800-268-6061
From	Dave Markell
Date	Oct 23/02
Number of Pages	(including this page)
Subject	Finch Water Treatment Plant.
- New Sal	nd filters are being installed.
- Presentl	y by passing filters
- On line	turbidinates. shows 1.5 - 2.0 NTU
Turbidit	
	ter from source (well #1)
	results Since Jan. 2002
	li at any time, on one occasion
	d T coliform, No counts of HPC or
	nd greater than 5.
	osage has been increased and
Free Cla	out plant will be kept at 2.4 mg/L
O.S hig	her than normal.
- Work	will take 5 days.

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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.

Indicators of Adverse	Phys/Chem			Radiological	☐ Exceeds IMAC
Water Quality	TI CACTION OF	☐ Exceeds IMA		CofA/Order	☐ Exceeds Limit
ORAL NOTIFICATION to SPI	ILLS ACTION CE	NTRE by LABOR	ATORY		
Date:	Time:		Ву:		
Laboratory Name:			Laboratory Emergency C	ontact Name	
Address			Position		
Email address			Phone #		Fax #
Waterworks Name			Waterworks Emergency (Contact	
Works #			Name		
Location			Position		
Email Address			Phone #		Fax #
NOTIFICATION OF WATER WO	ORKS OWNER		NOTIFICATION OF	LOCAL MEDI	CAL OFFICER OF HEALTH
Person Contacted			Person Contacted		
Position			Position		
Date	Time		Date		Time
Laboratory Written Notification Proceedings (Lab Results must be attached using laboratory)		Name (please print	:) 		
Signature				Date	
PART 2 - NOTIFICATION B	Y WATER WO	RKS OWNER		<u> </u>	
Indicators of Adverse		Exceeds MAC	J	Radiological	☐ Exceeds IMAC
Water Quality /		Exceeds IMAC		CofA/Order	☐ Exceeds Limit
☐ This notification is for operation			ere is no Laboratory notif	ication associat	ed with this report
SPILLS ACTION CENTRE ORAL	NOTIFICATION B	Y OWNER	WATERWORKS EME	RGENCY CO	NTACT
Date 0 23/02	Time //:3	1	Name Dave	Marke	<u>. ((</u>
Waterworks Name Finds L	Notes Tree	extnent	Position Process	Tech	1:
Works # 210003912			Phone # 613-4485	3098	Fax # 613-448-1616
Works Person Providing Oral Notification	Dave M	arkell			
MEDICAL OFFICER OF HEALTI			REMEDIAL ACTIONS		
Date 1 (+ 23/02	Time //:	30	Resampling Initiated	☐Yes	
Person Contacted Mdalia			Increase Chlorine Dose Flushing Mains	Yes □ Yes	
Position Special -	Project	3	Other Actions Taken	□ Yes	
Phone # 1-800 7-67	533-	7530	Describe:		
Works Person Providing Oral Notification	Dave M	Varkel/	Other informa	tion attac	hed 🗆
Water Works Written Notification		lame (please print)			
Signature Oars Van	Ne-			Date O	-23/02

1402-047 (07/00)

Page _____ of ____



Ministère de l'Environnement

PART 3:

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

Microbiological Testing

Lab Sample	Sample Field	e Date/Time Collected	Collected Location M/D/Y)	Count/100mL			P-A/100mL Presumptive/	HPC/ 1mL	Date - Plates Prepared	Date - Plates Read
ID No.	ID No.	(M/D/Y) (: am)		Total Coliforms	Back- ground	E.coli 🗆 Fecal C. 🗆	Confirmed (if applicable)		(M/D/Y)	(M/D/Y)

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

Lab Sample ID No.	Sample Field ID No.	Date/Time Collected (M/D/Y)	Sample Type / Location	Parameter	Result	Unit	MAC/ IMAC	Date - Analysis Completed (M/D/Y)	Date - Data Approved (M/D/Y)
			ON LINE	Turbidity	1.6	NTU		Continous	

Results Authorized By:	Authorization Date:
For Ministry Use Only:	Occurrence Report #:

Page ____ of ____

Log for OCWA 613 448-1616 Oct 23 2002 12:01pm

Last Transaction

Date Time Type Identification Duration Pages Result

Oct 23 12:00pm Fax Sent 18002686061 0:48 3 OK

Log for OCWA 613 448-1616 Oct 23 2002 11:59am

Last Transaction

Date Time Type Identification Duration Pages Result

Oct 23 11:56am Fax Sent 16139337930 2:23 3 OK



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 **Company** Fax Number From Date (including this page) **Number of Pages** Subject

Caution: This fax is private property intended solely for the information and use of the addressee. The contents are confidential and may be privileged. Any unauthorized use of this fax is strictly prohibited. If you are not the addressee, please notify sender immediately by telephone and either return or destroy this fax.

Log for OCWA 613 448-1616 Oct 25 2002 11:50am

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Oct 25 11:47am Fax Sent 16139621966 3:09 11 OK



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 MOH MOE To Company 263-6061 Fax Number Markell From Date (including this page) **Number of Pages** Subject system Sample.

8	Ontario
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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 2nd notification to the MOE Spits Action Centre (SAC) of 1-200-268-6660 or 1-416-325-1660 and the local Medical Officer of Health (MON) of indicators of adverse delabing water quality and exceedances of standards or outlined in the Regulation and remailed actions taken. Further, within 21 hours of the area notification, the perty shall provide satisfication on this completed form by Fex to the Spits Action Centre at 1-400-264-6661 or 1-416-325-3011 and the local Medical Officer of Health. Failure to notify these parties in accordance with the Regulation constitutes an officac under the Act. A 2017 of this form may be acquired through the Ministry of the Emitroament (MOE) public web site (www one gov.on.cs) or by contacting any MOE office.

PART I – NOTIFICATION BY LABORATORY	C Radiological Exceeds IMAC
Indicators of Adverse Phys/Chem Exceeds MA	
Water Quality	
ORAL NOTIFICATION to SPILLS ACTION CENTRE by LABOR	CATURY
Date: Time:	By:
	Laboratory Emergency Contact Name
Laboratory Name:	
Address	Position Phone fi Fax ii
Email address	Phone fi Fex ::
Waterworks Name Fillich 19	Waterworks Emergency Contact
Works#_3/00039/2	Name DANS MISTICKELL
Location FINCH	Position OPPLIZACE MODERN
	619-448-3248 Bully - 11016
Emil Address NOTIFICATION OF WATER WORKS OWNER	NOTIFICATION OF LOCAL MEDICAL OFFICER OF HEALTH
Person Contacted & VAIVE HRIVOZYCSON	Person Contacted C.LAL. DETTR
THE SOUTH AND TH	Position RISC GATIONIST
Position 13/11/0/02 Time 13/11	Date SPALL 10/02 Time 1.245
Leboratory Written Notification Prepared by: Name (please prin	
(Lab Results must be attached using Part 3 of form)	
Salger De Salger	20/501510/05
PART 2 - NOTIFICATION BY WATER WORKS OWNER Indicators of Adverse P Physichem Exceeds MA	C Radiological Exceeds IMAC
Indicators of Adverse Phys/Chem Exceeds MA Water Quality Exceeds IMJ	
☐ This notification is for operational problems identified at the waterworks:	
SPILLS ACTION CENTRE ORAL NOTIFICATION BY OWNER	WATERWORKS EMERGENCY CONTACT
A 1010	Name Dave Markell
Calcut	Position OPERATOR
	Phone # 613-448-3098 Fax # 613-448-1616
Works # 20003912	Phone # 017 770 2070 Fax# 015 470 7016
Works Person Providing Oral Notification D. Markell	PRIVEDIAL ACTIONS TAVEN BY AUNIED.
MEDICAL OFFICER OF HEALTH ORAL NOTIFICATION BY OWNER	
	Resumpting Initiated Wes \(\bigcup \text{No} \) Increase Chlorine Dose \(\bigcup \text{Yes} \) No
Person Consacted Claude He	Flushing Mains Yes No
Pasitina Recentionist	Other Actions Taken Tres No
Phone # 800-267-7120 Fax # 933- 7530	Describe: Downstream Sampling.
Works Person Providing Onal Notification 10-Marke(1	Other information attached
Water Person Providing Oral Notification / 17 (4 Pull Valer Works Written Notification Prepared by: Name (please print)	Dove Markell
Signature Signature	Date 4
// ///////////////////////////////////	1000 15147
Jave Now Cur	Apr. 10/02
	ecurrence Report #:

1402-847 (07/00)



de l'Environmement

PART 3:

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

Microbiological Testing

Laboratory Sample ID No.	Sample Fleld ID No.	Date/Time Collected (M/D/Y) (: pm.)	Sample Type / Location	Membrane Filtration Count/100ml		P-A/100mi HPC/ Presumptive/ 1ml Confirmed (if applicable)		Date of Analysis (M/D/Y)	
				Total Collforms	Back- ground	E.coli/ Fecal C.			
795523303	FU2-54.	20186146	59,000 66 PUNIV 5197100 5P5	رح		0			COLHOLFIC

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)	Sample Type/ Location	Parameter	Result	Unit	Date of Analysis (M/D/Y)

Laboratory Results Authorized by:	Vielent	Authorization Date:
For Ministry Use Only:		Осситтенсе Report #:

1402-047 (07/00)

Caduceon Environmental Laboratories

Division of Caduceon Enterprises Inc.

Ontario Clean Water Agency

5 Industrial Dr.

Chesterville, ON

K0C 1H0 Attention:

Dave Markell

Certificate of Analysis

Report:

220003203 Finch WTP

Project:

Date Sampled:

Date Received:

April 8, 2002 April 9, 2002

Date Printed:

April 10, 2002

Matrix:

Drinking Water

	Parameter	E. coli	Free CI2	НРС	тс	Total CI2
	Unit	/100mL	mg/L	/m_	/100mL	mg/L
	MDL	1	0.05	2	1	0,05
Sample	e ID					
Well	i - Raw	absent			absent	
WTF	P Treated	absent	2.20		absent	2,40
Dist	. Barb's Diner	absent	1.10		absent	1.30
Dist.	. Sewage Pumping Station (SPS	absent	1.00		2	1.20

past 4 ob 4

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

e13-25e-154¢

470:50 SO DI 14AA

Michael Ziebell, General Manager

Caduceon Env. Labs.

TRANSMISSION VERIFICATION REPORT

TIME: 04/10/2002 14:18

DATE, TIME FAX NO./NAME DURATION PAGE(S) RESULT MODE 04/10 14:16 18002585051 00:01:42 04 OK STANDARD ECM TRANSMISSION VERIFICATION REPORT

TIME: 04/10/2002 14:14

DATE,TIME FAX NO./NAME DURATION PAGE(S) RESULT MODE

04/10 14:12 16139337930 00:02:03 04 OK STANDARD



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	- IRENE
Company	MoH
Fax Number	1-613-262220 7930 933-7930
From	Dave
Date	FEB 21/02
Number of Pages	(including this page)
Subject	Please find attached
lab A	heets from Moose Creek,
Finch,	Chesterville and Winchester
Wells	± 1,5 86.
These o	are as a required follow-up
•	fications of adverse water
	over 20 ms/c) FEB 7/02.
any qu	vestions please call Some
'	



Chesterville Hub
5 Industrial Drive,

Chesterville, Ontario K0C 1H0

Tel: (613) 448-3098 Fax: (613) 448-1616 bhenderson@ocwa.com

Fax

To

Rheal Delaquis

Company

Ministry of Environment

Fax Number

(613) 933-6402

From

Blair Henderson

Date

February 21, 2002

Number of Pages

1 (including this page)

Subject

Finch Water and Moose Creek Water - Sodium Exceedance

As a follow up to notification of sodium exceedance dated February 7, 2002, as per ODWR, all sites have been resampled and the results are as follows.

Finch Treated Water - 77.0 mg/Litre Moose Creek Treated Water - 27 mg/Litre

These results have been forwarded to the Ministry of Health.

These results are consistent with historic sodium results.

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2201833

Date:

2002-02-20

ATT: Mr. Blair Henderson

Date Submitted:

2002-02-14

Project:

Finch Wells Resample

				P.O. Number Matrix:	•	Supply Water	
	Samp	LAB ID: le Date; nple ID:	169944 2002-02-13 FW-01			Oupply vvaler	
PARAMETER	UNITS	MDL					
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

608 Narris Court, Kingston, ON, K7P 2R9

TRANSMISSION VERIFICATION REPORT

TIME: 02/21/2002 13:47

DATE,TIME FAX NO./NAME DURATION PAGE(S) RESULT MODE 02/21 13:45 16139337930 00:02:05 05 OK STANDARD Accutest Laboratories Ltd.

146 Colonnade Rd., Unit 8, Nepean, Onterio, K2E 7Y1 www.accutestlabs.com

e-mail;



To: Blair Henderson **OCWA Chesterville** 613-448-3098 Phone: Fax phone: __613-448-1616 CC:

Date:	February 7, 2002
Number	of pages including cover sheet:
From;	
	Kristina Hay
	QA/QC Coordinator
Phone:	613-727-5692
Fax phon	e: 613-727-5222

khay@accutestlabs.com

REMARKS Originals to follow:		Urgent YE\$		For your re	eview VIA:		Reply ASAP Mail		Please comment Courier
Your Reference: Na	ODW	/S Exceed	iance	ıs	Our Re	efere	nce:		
Mr. Henderson,									
This is a notice of adverse have attached a preliminal Analysis form.	· Na re	esults for by of the n	the V eport	Vinchester, s as well as	Finch, M Part 1 a	oose nd 3	Creek and Che of the MOE Not	stervi	lle Well Supplies 1 Drinking Water
Please contact me if you h	i ave a	ıny questi	ons.						
Best regards.									
Bristne Ho Kristina Hay	21	e ^r							

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2200718

Date: Date Submitted: 2002-01-29 2002-01-22

ATT. Mr. Blair Henderson

Project:

Finch Wells - Quarterly

P.O. Number:

Supply Water

				Matrix:		Supply Water	
	L	AB ID:	167006				
	Sample	e Date:	2002-01-21				
	Sample ID:		FW-01				
		•	}		1		
PARAMETER	UNITS	MDL	TREATEDWATER				
Ca	mg/L	1	66		1		
F	mg/L	0.10	0.47				}
Mg	mg/L	1	29		ŀ		
N-NO2	mg/L	0.10	<0.10		j		i
N-NO3	mg/L	0.10	<0.10		1		
K	mg/L	1	6		1		
Na	mg/L	2	6 82		1		
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MDL = Method Detection Limit

INC = Incomplete

Comment:

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

in occordance with the Christian Vegalation. Lebersories and Wosse Works Omnes mess terrestication provide again neightension to the MOR Spile Action Cours (SAC) as 1-200-266-6666 or 1-416-235-1000 and the local Medical Officer of Housing (MOR) of inclinations of absorbing the provide against new quality and accordance of standards as the purp shall provide against new quality and accordance of standards and provide against new quality and the focus Medical Offices of the arm new shall provide provide accordance on the focus of standards and the focus of the focus of the focus Medical Office of the focus Medical Office of the focus Medical Office and the focus of the focus of the focus of the focus Medical Office and the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the focus of the fo Water Protection Regulation

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Kristina Hay	Laborance Welding Motification Prepared by: (Lab Revolusing must be assested using Part 3 of forms)
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· wilth	· APPORAGO MONOR
From Comment (1614 MORCHANA)	MOSKADASH TIDIO
MOLINICATION OF LOCAL MEDICAL OFFICER OF REALTH	MOTIFICATION OF WATER WORKS OWNER
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- Blair Henderson	216800018
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Analytical Services Manager	146 Colonnade Rd., Unit 8, Nepean, ON KZE 7Y1
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	NAL NOTIFICATION to SPILLS ACTION CENTRE by LABORAT
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PART 3:

(F) Ontario et the dr. Servicement

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

Testing
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	P-A/100mi	Presumptive/ Confirmed (if applicable)					
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	rane Filtra	Count/100ml	Back- ground				
	Memb	Ş	Total Coliforms				
		Sample 1 ype/ Location					
		Date/Time Collected (M/D/Y)	. e.e.)				
		Sample Field ID No.					
		Laboratory Sample ID No.					

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

Distributed Testing	Anal/Radial	poical Testing				-		T. A. a. Chiolic
ruysical/Cuten					Result		MAC	Date of Allanysis
Laboratory Sample	Sample Field	Collected (NADAY)	Sample Type/ Location				MAC Section	(Per 6)
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Laboratory Results Authorized by

For Ministry Use Only:

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Occurrence Report #:

TRANSMISSION VERIFICATION REPORT

TIME: 02/07/2002 17:24

DATE, TIME FAX NO./NAME DURATION PAGE(3) RESULT MODE 02/07 17:21 16139337930 00:02:27 04 OK STANDARD

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TRANSMISSION VERIFICATION REPORT

TIME: 02/07/2002 17:30

DATE, TIME FAX NO./NAME DURATION PAGE(S) RESULT MODE 02/07 17:25 18002586061 00:04:48 09 OK STANDARD ECM

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

Finch Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Finch Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present the 2002 First 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 Operations Manager: Blair Henderson

Phone: (613) 774-3663 Phone: (613) 448-3098

E-mail Address: jkingsbury@ocwa.com 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

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

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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: Finch WTP & Distribution System

Total Design Capacity 691 cubic meters/day

Raw Water Source Groundwater

Disinfection Method Sodium Hypochlorite

Municipal Location Municipal Office, 2 Victoria Street, Berwick

Service Area Village of Finch

Service Population 441

Operational Description:

Raw Water Source: Two drilled wells located at 20 William Street in the Village of Finch.

Low Lift Pumps: Two submersible well pumps, one duty and one standby, direct the water from the wells to a 9.5 L/second force draft aeration tower, where H2S is removed from the raw water.

Water from the aeration tower is chemically injected with Sodium Hypochlorite for disinfection, prior to entry to the 20 cubic meter clear well.

<u>High Lift Pumps</u>: Two high lift pumps, one duty and one standby, move the chlorinated water from the clear well to the pressure filters.

Filters: Two 4 Litre/second dual media pressure filters, remove particles from the chlorinated water. Filter backwash treatment system consists of a 15 cubic meter surge tank, with a 1.4 cubic meter settling tank and an 18 cubic meter sludge holding tank.

Elevated Storage Tank: The plant treated water, after filtration, is directed to the distribution grid and elevated storage tank with a capacity of 580 cubic meters.

<u>Distribution System</u>: There are approximately 441 persons supplied with water from the Finch Water Treatment Plant.

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

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 Finch 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 First Quarter, Sodium was found to exceed the Ontario Drinking Water Standards concentration of 20 mg/L as set out in Ontario Regulation 459/00. The sodium concentrations of the treated water at Finch Water Treatment Plant in the first quarter were 82 mg/L and 77 mg/L. The local Medical Officer of Health must be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to the local physicians for their use with patients on sodium restricted diets. The aesthetic objective for sodium in drinking water is 200 mg/L at which it can be detected by a salty taste.

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

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. The result of the first sample was 82 mg/L and as per Reg. 459 re-sampling was initiated and the results were 82 mg/L.

Definitions & Terms

 m^3 - Cubic Meter, $1m^3 = 1000$ litres

TCU - True Colour Units

CaCO₃ - 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.

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

Finch Water Quality Test Results

Finch Water Qua							
Microbiological Parameters	MAC or	# of Samples	# of Detectable	Sampling Dates	Range	Exceedence?	Typical Source of Contaminant
	IMAC		Results	(m/d)			
Total Coliform (counts/100ml)	0	40	0	01/01-03/31	n/a	no	Indicate possible presence of coliform
Escherichia Coliform (counts/100ml)	0	40	0	01/01-03/31	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (counts/100ml)	500	27	10	01/01-03/31	2-120	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)	Range	Exceedence?.	Typical Source of Contaminant
Turbidity (NTU)	1	Continuous	Continuous	01/01-03/31	0.07-0.17	no	Turbidity is a measure of particles in water
Free Chlorine - Plant Effluent (mg/l)	-	Continuous	Continuous	01/01-03/31	0.77-2.40	no	Chlorine added for Disinfection
Free Chlorine- Distribution (mg/l min 0.05 & max. 4.0)	-	Grab Sample weekly	weekly	01/01-03/31	0.9-2.0	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 (ug/l)	0.01	1	ı	01/21/02	0.001	по	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	01/21/02	<0.1	no	Natural component of water
Nitrite	1	1	1	01/21/02	<0.1	no	
Arsenic	IMAC= 0.025	1	1	09/18/00	<0.001	no	
Barium	1	1	1	09/18/00	0.43	no	
Boron	IMAC=	lil	1	09/18/00	0.17	no	
	5.0	L		03710700			
Cadmium	0.005	1		09/18/00	<0.0001	no	
Cadmium Chromium (Total)							
Chromium (Total) Copper	0.005 0.05 1	1 !	1 1	09/18/00 09/18/00 09/18/00	<0.0001	no	
Chromium (Total)	0.005 0.05	1 1	1	09/18/00 09/18/00	<0.0001	no no	
Chromium (Total) Copper	0.005 0.05 1	1 !	1 1	09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013	no no no	
Chromium (Total) Copper Iron	0.005 0.05 1 0.3	1 ! 1	1 1 1	09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013 <0.01 <0.001 <0.001	no no no no	
Chromium (Total) Copper Iron Lead Manganese Mercury	0.005 0.05 1 0.3 0.01	1 ! 1 !	1 1 1 1 1	09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013 <0.01 <0.001	no no no no	
Chromium (Total) Copper Iron Lead Manganese	0.005 0.05 1 0.3 0.01 0.05	1 ! 1 1 1	1 1 1 1 1 1	09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013 <0.01 <0.001 <0.001	no no no no no	
Chromium (Total) Copper Iron Lead Manganese Mercury Selenium Uranium	0.005 0.05 1 0.3 0.01 0.05 0.001	1 1 1 1 1	1 1 1 1 1 1 1 1 1	09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013 <0.01 <0.001 <0.001 <0.0001	no no no no no no no no no	
Chromium (Total) Copper Iron Lead Manganese Mercury Selenium	0.005 0.05 1 0.3 0.01 0.05 0.001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00 09/18/00	<0.0001 <0.01 0.013 <0.01 <0.001 <0.001 <0.0001	no no no no no no no no no no no no no n	

Volatile Organics (ug/l) MAC or # of # of Sampling Range Exceedence? Typical Source of	Volatile Organics (ug/l)	MAC or # of	# of Sampling	Range Exceedence? T	ypical Source of
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January - March 2002, Finch Water Plant - Serving the Village of Finch

		Samples	Detectable	Dates			Contaminant
	IMAC		Results	(m/d/y)			
Trihalomethanes - Plant	100	1	1	01/21/02	82.4	no	
Trihalomethanes - Dist.	100	i	1	01/21/02	46.1	no	
Benzene	5	1	1	01/21/02	<0.5	no	
Carbon Tetrachloride	5	1	1	01/21/02	<0.9	no	
Dichloromethane	50	11	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	Ī	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	
Volatile Organics (ug/l)	MAC or	# of	#of	Sampling	Range	Exceedence?	Typical Source of
A STATE OF THE STATE OF	IMAC	Samples	Detectable Results	Dates (m/d/y)			Contaminant
Trichloroethlyene	50	1	1	01/21/02	< 0.3	no	
Vinyl chloride	2	1	1	01/21/02	<0.5	no	
Xylene	300	1	1	01/21/02	2	no	
Bromodichloromethane	n/a	1	1	01/21/02	22.6	no	
Bromoform	n/a	1	1	01/21/02	2.8	no	
Chloroform	n/a	1	1	01/21/02	31	no	
Dibromochloromethane	n/a	1	1	01/21/02	26	no	

Pesticides & PCB (ug/L)	MAC or IMAC	# of Samples	# of Detectable	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
			Results				
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	111	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	IMAC=10	1	1	01/21/02	<1.0	no	
acid (2,4 -D)	0		-		1	10	
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	I	1	01/21/02	<10.0	no	
Glyphosate	IMAC=28 0	1	1	01/21/02	<10.0	no	
Heprachlor + Heptachlor epoxide	3	1	1	01/21/02	<0.3	no	

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

Lindane	44	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	no	
Metolachlor	IMAC=50	<u>l</u>	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=19	l	1	01/21/02	<5.0	no	
	0						
Polychlorinated Biphenyls	IMAC=3		1	01/21/02	< 0.3	no	
Prometryne	IMAC=1	1	1	01/21/02	<0.25	no	
Simazine	IMAC=10	_11	l	01/21/02	<1.0	no	
Temephos	IMAC=28	1	1	01/21/02	<10	по	
	0						
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	ı	1	01/21/02	<0.5	по	
2,4,5 - trichlorophenoxy	IMAC=28	1	1	01/21/02	<1.0	по	
acedic acid	0						
Trifluralin	45	1	1	01/21/02	<1.0	no	

Additional Parameters Non-Health Related (mg/L)	AO or OG	Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Expeedence?	Typical Source of Contaminant
Calcium		1	1	01/21/02	66	no	
Magnesium		1	1	01/21/02	29	no	
Potassium		1	1	01/21/02	6	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 Finch 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, 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?

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

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.

Division of Caduceon Enterprises Inc.

Client:

ptario Clean Water Agency

hdustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell **Certificate of Analysis**

Report:

230000130

Finch WTP

Project:

Date Sampled:

January 6, 2003

Date Received: Date Printed:

January 7, 2003 January 09, 2003

Matrix:

Parameter	Unit	MDL.	Sample Identificatio	Sample Identification					
			Well - Raw	WTP Treated	Dist. Arena	Dist. St. Bernards School			
Total Chlorine	mg/L	0.05		2.10	1.47	1.96			
Free Chlorine	mg/L	0.05		1.74	1.29	1.70			
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			

Division of Caduceon Enterprises Inc.

Client:

atario Clean Water Agency

hdustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell **Certificate of Analysis**

Report:

230000763

Project:

Finch WTP

Date Sampled:

Date Received:

January 20, 2003 January 21, 2003

Date Printed:

January 23, 2003

Matrix:

Parameter	Unit	MDL	Sample Identificatio	Sample Identification					
			Well - Raw	WTP Treated	Dist. S.P.S	Dist. Arena			
Total Chlorine	mg/L	0.05		2.20	1.29	1.48			
Free Chlorine	mg/L	0.05		1.88	1.18	1.23			
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			

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

hdustrial Dr.

Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

230000449

Project:

Finch WTP

Date Sampled:

January 13, 2003

Date Received:

January 14, 2003

Date Printed:

January 16, 2003

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	Well - Treated	Dist. MQA Sonar	Dist. SPS # 1	
Total Chlorine	mg/L	0.05		2.18	1.85	1.14	
Free Chlorine	mg/L	0.05		1.96	1.66	1.03	
E. coli	/100mL	1	absent	absent	absent	absent	
Heterotrophic Plate Count	/mL	2		6	absent		
Background bacteria	/100mL	1	3				
Total Coliforms	/100mL	1	absent	absent	absent	absent	

Environmental Laboratory

Client:

ario Clean Water Agency

5 industrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

220000056

Project:

Finch WTP

Date Sampled:

January 2, 2002

Date Received: Date Printed:

January 3, 2002 January 07, 2002

Matrix:

Drinking Water

1						
			Well #1 Raw	WTP Treated	Dist. Senior Center	Dist. Sewage Pumping Station #1
Total Chlorine	mg/L	0.05		2.30	1.20	1.00
Free Chlorine	mg/L	0.05		2.00	1.00	0.90
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	2	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample Identification

Environmental Laboratory

Client:

tario Clean Water Agency

Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

220000170

Project:

Finch WTP

Date Sampled:

January 7, 2002

Date Received:

January 8, 2002

Date Printed:

January 10, 2002

Matrix:

Drinking Water

•						
			Well #1 Raw	WTP Treated	Dist. Co-op	Dist. Water Tower
Total Chlorine	mg/L	0.05		2.00	1.60	1.30
Free Chlorine	mg/L	0.05		1.90	1.60	1.20
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	34	2
Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample Identification

Environmental Laboratory

Client:

tario Clean Water Agency

o industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markeli

Certificate of Analysis

Report:

220000386

Project:

Finch WTP

Date Sampled:

January 14, 2002

Date Received: Date Printed:

January 15, 2002 January 17, 2002

Matrix:

Parameter Un	t MDL		Sample Identifica			
			Well #1 Raw	WTP Treated	Dist. St. Burnards	Dist. Barb's
Total Chlorine	mg/L	0.05		1.40	1.90	1.50
Free Chlorine	mg/L	0.05		1.30	1.70	1.40
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 Enterprises Inc. **Environmental Laboratory**

Certificate of Analysis

tario Clean Water Agency

Industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Report:

220000610

Project:

Finch WTP

Date Sampled:

January 21, 2002

Date Received:

January 22, 2002

Date Printed:

January 25, 2002

Matrix:

Parameter Unit	MDL		Sample Identification			
			Well #1 Raw	WTP Treated	Dist. St. Bernard's School	Dist. SPS #1
Total Chlorine	mg/L	0.05		2.50	1.90	1.40
Free Chlorine	mg/L	0.05		2.30	1.60	1.20
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	6	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Environmental Laboratory

Client:

tario Clean Water Agency

5 Industrial Dr. Chesterville, ON **K0C 1H0**

Attention: **Dave Markell** **Certificate of Analysis**

Report:

220000786

Finch WTP

Project:

Date Sampled:

January 28, 2002

Date Received:

January 29, 2002

Date Printed:

January 31, 2002

Matrix:

Parameter U	nit MDL		Sample Identificat	Sample Identification					
			Well #1 Raw	WTP Treated	Dist. St. Burnards	Dist. SPS			
Total Chlorine	mg/L	0.05		1.90	2.10	1.40			
Free Chlorine	mg/L	0.05		1.80	1.90	1.30			
E. coli	/100mL	1	absent	absent	absent	absent			
Heterotrophic Plate Cou	nt /mL	2	absent	absent	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent			

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2200718

Date:

2002-01-25

Date Submitted:

2002-01-22

ATT: Mr. Blair Henderson

Project:

Finch Wells - Quarterly

Chemicals

P.O. Number:

Matrix:

Supply Water

				matrix:		Supply Water	
		LAB ID:					
	Sam	ple Date:	2002-01-21				
	Sa	ample ID:	FW-01				
i							
					}		
PARAMETER							
BTEX / 624 / PURGEABLE HYD	ONS	,					
Benzene	ug/L	0.5	<0.5 V				}
Toluene	ug/L	0.5	<0.5 0	r	Į.		ļ
Ethylbenzene	ug/L	0.5	<0.5			{	
m/p-xylene	ug/L	1.0	<1.0) <0.5			ĺ	
o-xylene	ug/L	0.5	<0.5 ⁹			1	i
Bromodichloromethane	ug/L	0.3	22.6			1	
Bromoform	ug/L	0.4	2.8 🗸		ł		{
bon Tetrachloride	ug/L	0.9	<0.9 🗸		t		l .
nochlorobenzene	ug/L	0.2	<0.2				
Chloroform	ug/L	0.5	31.0 🗸]		
Dibromochloromethane	ug/L	0.3	26.0		}		
1,2-dichlorobenzene	ug/L	0.4	<0.4			j	1
1,4-dichlorobenzene	ug/L	0.4	<0.4 🗸	:		ļ	į
1,2-dichloroethane	ug/L	0.7	<0.7 v			ļ	
1,1-dichloroethylene	ug/L	0.5	<0.5 🗸				
Dichloromethane	ug/L	4.0	<4.0 V	1)		
Tetrachloroethylene	ug/L	0.3	<0.3 V				
Trichloroethylene	ug/L	0.3	<0.3				
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS]		,				
Trihalomethanes (total)	ug/L	2.0	82.4 V				
Xylene; total	ug/L	2.0	<2.0 レ				
BTEX / 624 Surrogate Recoveries							
Toluene-d8	%		97				
1,2-dichloroethane-d4	%		104		:		
4-bromofluorobenzene	%		103		ĺ	i	
		1					

MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROYAL:

REPORT OF ANALYSIS

Client: Finch Well Supply

Report Number:

2200718

Date:

2002-03-12

ATT: Mr. Blair Henderson

2002-01-22

Project:

Finch Wells - Quarterly

Chemicals

Sample Matrix: Supply Water

				Sample Matri	x:	Supply Water	
		LAB ID:	167006				
1		ple Date:	2002-01-21				
}	Sa	ample ID:	FW-01				
							1
PARAMETER	UNITS	MDL					
PESTICIDES & PCB's							
Alachlor	mg/L	0.0005	<0.0005			Į	
Aldicarb	mg/L	0.0050	<0.0050				
Aldrin + Dieldrin	mg/L	0.00007	<0.00007	j]]
Atrazine	mg/L	0.001	<0.001	1			
Azinphos-methyl	mg/L	0.002	<0.002			j	
Bendiocarb	mg/L	0.0020	<0.0020			i	
Bromoxynil	mg/L	0.0005	<0.0005				
Carbaryl	mg/L	0.0050	<0.0050				
rbofuran	mg/L	0.0050	<0.0050			ļ	Į
ordane (Total)	mg/L	0.0007	<0.0007				
Chloropyrifos	mg/L	0.0010	<0.0010]			
Cyanazine	mg/L	0.0010	<0.0010	1			
Diazinon	mg/L	0.0010	<0.0010	1 1			
Dicamba	mg/L	0.0010	<0.0010	1			
Diquat	mg/L	0.0070	<0.0070	l !	:		
2,4-Dichlorophenol	mg/L	0.0005	<0.0005	!	1		
DDT	mg/L	0.0030	<0.0030		i		
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	[į	
Lindane (Total)	mg/L	0.0004	<0.0004	l l			
Malathion	mg/L	0.0050	<0.0050	İ			
Methoxychlor	mg/L	0.0900	<0.0900	i i			
Metolachlor	mg/L	0.0005	<0.0005				

ND = Not Detected (< MDL)

MDL = Method Detection Limit

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: Finch Well Supply

Report Number:

Date Submitted:

2200718

Date:

2002-03-12 2002-01-22

ATT: Mr. Blair Henderson

Project:

Finch Wells - Quarterly

Chemicals

Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Comp					Sample Matri	x:	Supply Water	
PARAMETER			LAB ID:	167006				
PARAMETER UNITS MDL Metribuzin mg/L 0.005 <0.005		Sam	ple Date:	2002-01-21				
PARAMETER UNITS MDL Metribuzin mg/L 0.005 <0.005		Sample ID:						
Metribuzin mg/L 0.005 <0.005 Paraquat mg/L 0.0010 <0.0010			•				1	
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 pephos mg/L 0.0007 <0.0007 2,3,4,6-Tetrachlorophenol mg/L 0.0005 <0.0005 Triallate mg/L 0.0005 <0.0005 2,4,6-Trichlorophenol mg/L 0.0005 <0.0005 Trifluralin mg/L 0.0001 <0.0001	PARAMETER	UNITS	MDL					
Parathion mg/L 0.0010 <0.0010 Pentachlorophenol mg/L 0.0005 <0.0005	Metribuzin	mg/L	0.005	<0.005				
Parathion mg/L 0.0010 <0.0010 Pentachlorophenol mg/L 0.0005 <0.0005	Paraquat	mg/L	0.0010	<0.0010				<u> </u>
Phorate mg/L 0.0005 <0.0005 Picloram mg/L 0.0050 <0.0050	Parathion		0.0010	<0.0010				
Picloram mg/L 0.0050 <0.0050 PCB's (total) mg/L 0.0003 <0.0003	Pentachlorophenol	mg/L	0.0005	<0.0005				
Picloram mg/L 0.0050 <0.0050 PCB's (total) mg/L 0.0003 <0.0003	Phorate	mg/L	0.0005	<0.0005				Ì
PCB's (total) mg/L 0.0003 <0.0003 Prometryne mg/L 0.00025 <0.00025	Picloram		0.0050	<0.0050	į			
Prometryne mg/L 0.00025 <0.00025 Simazine mg/L 0.0010 <0.0010	PCB's (total)		0.0003	< 0.0003				
Simazine mg/L 0.0010 <0.0010 mephos mg/L 0.010 <0.010				<0.00025				
mephos mg/L 0.010 <0.010 bufos mg/L 0.0007 <0.0007	Simazine		0.0010	< 0.0010			1	
bufos mg/L 0.0007 <0.0007 2,3,4,6-Tetrachlorophenol mg/L 0.0005 <0.0005	mephos		0.010	<0.010				
Triallate mg/L 0.0010 < 0.0010	bufos		0.0007	<0.0007				
2,4,6-Trichlorophenol mg/L 0.0005 <0.0005 Trifluralin mg/L 0.0010 <0.0010	2,3,4,6-Tetrachlorophenol	mg/L	0.0005	<0.0005				
Trifluralin mg/L 0.0010 <0.0010	Triallate	mg/L	0.0010	<0.0010				1
	2,4,6-Trichlorophenol	mg/L	0.0005	<0.0005				ľ
	Trifluralin	mg/L	0.0010	<0.0010				
	2,4,5-T		0.0010	<0.0010		1		Í
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ND = Not Detected (< MDL)

MDL = Method Detection Limit

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2200718

Date:

2002-01-29

Date Submitted:

2002-01-22

ATT: Mr. Blair Henderson

Project:

Finch Wells - Quarterly

P.O. Number:

				Matrix:		Supply Water	
		LAB ID:	167006				
	Samp	le Date:	2002-01-21				
	San	npie ID:	FW-01				
PARAMETER	UNITS	MDL	TREATEDWATER				
Ca	mg/L	1	66				
F	mg/L	0.10	0.47	1	ļ	ļ	1
Mg	mg/L	1	29				i .
N-NO2	rng/L	0.10	<0.10		ĺ		
N-N03	mg/L	0.10	<0.10 🗸			İ	
ĸ	mg/L	1	6	+·	ĺ		
Na	mg/L	2	6 82 ✓		ł .		
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MDL = Method Detection Limit

NC = Incomplete

Comment.

608 Norris Court, Kingston, ON, K7P 2R9

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2200722

Date:

2002-01-25

Date Submitted:

2002-01-22

ATT: Mr. Blair Henderson

Project:

Finch System

P.O. Number:

Matrix: Supply Water

				matrix.		Supply water	
		LAB ID:					
	Sam	ple Date:	2002-01-21				
		mple ID:					
			SPS#1			i	
							į .
PARAMETER	UNITS	MDL					
BTEX / 624 / PURGEABLE HYD	ROCARBO	ONS					
Bromodichloromethane	ug/L	0.3	18.7			 	ļ
Bromoform	ug/L	0.4	2.0				
Chloroform	ug/L	0.5	10.4				Ì
Dibromochloromethane	ug/L	0.3	15.0				
TOTALS							
Trihalomethanes (total)	ug/L	2.0	46.1				
BTEX / 624 Surrogate Recoveri							1
Taluene-d8	%		102				į į
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

608 Norris Court, Kingston, ON, K7P 2R9

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2200722

Date:

2002-01-29

Date Submitted:

2002-01-22

Project:

Finch System

P.O. Number:

Matrix: Supply Water

		LAB ID:	167010				
	Samp	le Date:	2002-01-21				
	Sar	nple ID:	FW-System SPS#1	1			
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				Í		ľ	
PARAMETER	UNITS	MDL	TREATEDWATER				
Pb	mg/L	0.001	<0.001 V				T
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MDL = Method Detection Limit

INC = Incomplete

Comment:

Environmental Laboratory

Client:

ario Clean Water Agency

Sindustrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Unit

MDL

Certificate of Analysis

Report:

220000965

Project:

Finch WTP

Date Sampled:

.....

Date Received:

February 4, 2002 February 5, 2002

Date Printed:

February 5, 2002 February 07, 2002

Matrix:

Drinking Water

1						
			Well #1 Raw	WTP Treated	Dist. Co-op	Dist. Smith's Cotage
Total Chlorine	mg/L	0.05		2.70	1.50	1.40
Free Chlorine	mg/L	0.05		2.50	1.40	1.20
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	8	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample Identification

Environmental Laboratory

Client:

tario Clean Water Agency

5 Industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220001205

Project:

Finch WTP

Date Sampled:

February 11, 2002

Date Received:

February 12, 2002

Date Printed:

February 14, 2002

Matrix:

Parameter Unit	MDL		Sample Identification	1		
			Well #1 Raw	WTP Treated	Dist. MacEwen	Dist. SPS #1
Total Chlorine	mg/L	0.05		1.90	1.20	1.30
Free Chlorine	mg/L	0.05		1.80	1.00	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

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

o Industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220001420

Project:

Finch WTP

Date Sampled:

February 18, 2002

Date Received:

February 19, 2002

Date Printed:

February 21, 2002

Matrix:

Parameter Uni	t MDL		Sample Identificati	on		
			Well #1 Raw	WTP Treated	Dist. Seniors Res.	Dist. Community Center
Total Chlorine	mg/L	0.05		2.30	1.70	1.90
Free Chlorine	mg/L	0.05		2.10	1.50	1.70
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	2	120	
Total Coliforms	/100mL	1	absent	absent	absent	absent
Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220001625

Project:

Date Sampled:

Finch WTP

Date Received:

February 25, 2002 February 26, 2002

Date Printed:

February 28, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification						
			Well #1 Raw	WTP Treated	Dist. 3163 Victoria St.	Dist. Smith Cottage			
Total Chlorine	mg/L	0.05		1.90	1.50	1.40			
Free Chlorine	mg/L	0.05		1.70	1.40	1.20			
E. coli	/100mL	1	absent	absent	absent	absent			
Heterotrophic Plate Count	/mL	2	absent	absent	12				
Total Coliforms	/100mL	1	absent	absent	absent	absent			

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

Date Submitted:

2201833

Date:

2002-02-20 2002-02-14

ATT: Mr. Blair Henderson

Project:

Finch Wells Resample

P.O. Number:

							ĺ	
į	PARAMETER	UNITS	MDL	TREATEDWATER				
	Na	mg/L	2	77				
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: OCWA Chesterville

Report Number:

Date Submitted:

2201743

Date:

2002-02-19 2002-02-13

ATT: Blair Henderson

Project:

Finch Water Filter Backwash

to Sanitary Sewer

P.O. Number:

				Matrix:		Sewage	
		LAB ID:	169744	169745		1	
		le Date:	2002-02-12	2002-02-12			
	San	nple ID:	FW-0010	FW-0011	 		
		•			i	1	ļ
PARAMETER	UNITS	MDL			 		
BOD5	mg/L	1	11		 		
pH			8.35	1	ļ	1	1
Total P	mg/L	0.01	0.28		ľ		
Total Suspended Solids	mg/L	2	32				
Escherichia Coli	ct/100mL] ~	\	<10			
Total Coliforms	ct/100mL			<10			
, cta. comonno	CUTOOTTE			`''			1
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:

tario Clean Water Agency

ondustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markeli

Report:

Project:
Date Sampled:

Date Received:
Date Printed:

220001905

Finch WTP

March 4, 2002 March 5, 2002

March 07, 2002

Matrix:

	Parameter	E. coli	Free CI2	НРС	тс	Total Cl2
	Unit	/100mL	mg/L	/mL	/100mL	mg/L
	MDL	1	0.05	2	1	0.05
Sample ID						
Well #2 Raw		absent		absent	absent	
WTP Treated		absent	1.90	2	absent	2.20
Dist. St. Bernard's S	School	absent	1.40	absent	absent	1.70
Dist. SPS # Main No	orth	absent	1.10		absent	1.40
Velì #1 Raw		absent			absent	

Unit

MDL

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

industrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Certificate of Analysis

Report:

220002210

Project:

Finch WTP

Date Sampled:

March 11, 2002

Date Received: Date Printed: March 12, 2002 March 14, 2002

Matrix:

Drinking Water

			Raw	WTP Treated	Dist. Water Tower	Dist. Senior's	
Total Chlorine	mg/L	0.05		2.00	1.90	2.00	
Free Chlorine	mg/L	0.05		1.80	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	

Sample Identification

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

¿ Pipin

Division of Caduceon Enterprises Inc.

Certificate of Analysis

Client:

ptario Clean Water Agency

Industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Report:

220002450 Finch WTP

Project:

Date Sampled:

Date Received:

March 18, 2002

Date Printed:

March 19, 2002 March 21, 2002

Matrix:

		Parameter	E. coli	Free CI2	HPC	тс	Total Ci2
		Unit	/100mL	mg/L	/mL	/100mL	mg/L
		MDL	1	0.05	2	1	0.05
-	Sample ID						
	Well Raw		absent		absent	absent	
	WTP Treated		absent	0.70	absent	absent	1.35
	Dist. Post Office		absent	1.68	2	absent	1.70
	Dist. Ambulance Bldg		absent	2.00		absent	2.20
	St. Bernard's School		absent	2.00		absent	2.08

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

ndustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220002713

Project:

to Compled.

Finch WTP March 25, 2002

Date Sampled: Date Received:

March 25, 2002 March 26, 2002

Date Printed:

April 01, 2002

Matrix:

j	Parameter U	Init MDL		Sample Identifica	ition		
				Well #1 Raw	WTP Treated	Dist. St. Bernards School	Dist. SPS #1
	Total Chlorine	mg/L	0.05		2.20	1.90	1.20
ı	Free Chlorine	mg/L	0.05		1.80	1.70	1.20
į	E. coli	/100mL	1	absent	absent	absent	absent
ł	Heterotrophic Plate Cour	nt/mL	2	absent	absent	absent	
	Total Coliforms	/100mL	1	absent	absent	absent	absent

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

Finch Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Finch Water Treatment Facility on behalf of the Township of North Stormont, is pleased to present the 2002 Second 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



Web site at www.ocwa.com

Client Services Representative: John Kingsbury Operations Manager: Blair Henderson

Phone: (613) 774-3663 Phone: (613) 448-3098

E-mail Address: jkingsbury@ocwa.com 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

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

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: Finch WTP & Distribution System

Total Design Capacity 691 cubic meters/day

Raw Water Source Groundwater

Disinfection Method Sodium Hypochlorite

Municipal Location Municipal Office, 2 Victoria Street, Berwick

Service Area Village of Finch

Service Population 441

Operational Description:

Raw Water Source: Two drilled wells located at 20 William Street in the Village of Finch.

Low Lift Pumps: Two submersible well pumps, one duty and one standby, direct the water from the wells to a 9.5 L/second force draft aeration tower, where H2S is removed from the raw water.

Water from the aeration tower is chemically injected with Sodium Hypochlorite for disinfection, prior to entry to the 20 cubic meter clear well.

High Lift Pumps: Two high lift pumps, one duty and one standby, move the chlorinated water from the clear well to the pressure filters.

Filters: Two 4 Litre/second dual media pressure filters, remove particles from the chlorinated water. Filter backwash treatment system consists of a 15 cubic meter surge tank, with a 1.4 cubic meter settling tank and an 18 cubic meter sludge holding tank.

Elevated Storage Tank: The plant treated water, after filtration, is directed to the distribution grid and elevated storage tank with a capacity of 580 cubic meters.

<u>Distribution System</u>: There are approximately 441 persons supplied with water from the Finch Water Freatment Plant.

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

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 Finch 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 second quarter, in the month of April, a sample of treated water from the distribution system was found to exceed the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. On April 8, 2002 a sample collected from the sink at #1 sewage pumping station exceeded MAC for Total Coliform with a result of 2 per 100/ml. As a result we actively undertook the following remedial actions:

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

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 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

CaCO₃ - 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.

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

Finch Water Quality Test Results

Microbiological	MAC	# of	# of	Sampling	Range	Exceedence?	Typical Source of
Parameters	or	Samples	Detectable	Dates			Contaminant
	IMAC		Results	(m/d)			
Total Coliform (counts/100ml)	0	42	1	04/01-06/30	2	yes	Indicate possible presence of coliform
Escherichia Coliform (counts/100ml)	0	42	0	04/01-06/30	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (counts/100ml)	500	29	7	04/01-06/30	2-8	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)	Range	Exceedence?	Typical Source of Contaminant
Turbidity (NTU)	1	Continuous	Continuous	04/01-06/30	0.07-0.85	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	04/01-06/30	0.87-2.38	no	Chlorine added for Disinfection
Free Chlorine- Distribution (mg/l min 0.05 & max. 4.0)	-	Grab Sample weekly	weekly	04/01-06/30	1.0-2.0	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)
Inorganic Parameters	MAC	# of	# of	Sampling	Range	Exceedence?	Typical Source of
(mg/l)	or IMAC	Samples	Detectable Results	Dates (m/d/y)			Contaminant
Lead - Distribution (ug/l)	0.01	1	1	01/21/02	0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	ı	1	04/11/02	<0.1	по	Natural component of water
Nitrite	1	ī	1	04/11/02	<0.1	no	
Arsenic	IMAC= 0.025	1	1	09/18/00	<0.001	no	
Barium	1	1	11	09/18/00	0.43	no	
Boron	IMAC= 5.0	1 [1	09/18/00	0.17	no	
Cadmium	0.005	1	1	09/18/00	< 0.0001	no	
Chromium (Total)	0.05	1	1	09/18/00	< 0.01	no	
Copper	1_1_	1	1	09/18/00	0.013	no	
Iron	0.3	1	11	09/18/00	< 0.01	no	
Lead	0.01	1	1	09/18/00	<0.001	no	· · · · · · · · · · · · · · · · · · ·
Manganese	0.05	1	11	09/18/00	<0.01	no	
Mercury	0.001	1	1	09/18/00	<0.0001	no	
Selenium	0.01	1	1	09/18/00	< 0.001	no	
Uranium	0.1	1		09/18/00	<0.001	no	
Sodium (System)	200	2	2	01/21/02- 02/13/02	82-77	no	
Fluoride	2.4	1	1	01/21/02	0.47	no	
Volatile Organics (ug/l)	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d/y)	Range	Exceedence?	Typical Source of Contaminant
	2000 000 000 000 000 000 000 000 000 00						

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

								معيون بهرستاب والمناسبة
Trihalomethanes - Dist.	100	1	1	04/11/02	74.6	no		
Benzene	5	1	i	04/11/02	<0.5	no		
Carbon Tetrachloride	5	1	1	04/11/02	<0.9	no	_+_	
Dichloromethane	50	i	1	04/11/02	<4			
1,2 - Dichlorobenzene	200	1	1	04/11/02	<0.4	no		
1, 4 - Dichlorobenzene	5	1	1	04/11/02		no		
1,2 - Dichloroethane	IMAC=	1			<0.4	no	-+-	
1,2 - Dichloroethane	5	1	1	04/11/02	<0.7	no		
1,1 - Dichloroethylene	14	1	1	04/11/02	_<0.5	no		
Volatile Organics (ug/l)	MACor	# of	#of	Sampling	Range	Exceeden	ce? T	ypical Source of
	IMAC	Samples	Detectable	Dates				ontaminant
			Results	(m/d/y)				
Ethylbenzene	24	1	1	04/11/02	< 0.5	no		
Monochlorobenzene	80	1	ı	04/11/02	<0.2	no		
Tetrachloroethylene	30	i	1	04/11/02	<0.3	no		
Toluene	24	1	1	04/11/02	<0.5			
Trichloroethlyene	_50		1	04/11/02		no		
Vinyl chloride	2	1	1	04/11/02	<0.3 <0.5	no	-+-	
Xylene	300	<u>'</u>				no		
	 		1	04/11/02	<2	no		
Bromodichloromethane	n/a	!	1	04/11/02	25.1	no	-+-	
Bromoform	n/a	!	!	04/11/02	2	no		
Chloroform	n/a	1	1	04/11/02	24.1	no		
Dibromochloromethane	n/a	1	11	04/11/02	21.4	no		
Pesticides & PCB (ug/L)	MAC or	# of	# of	Sampling	Range	Exce	edence?	Typical Source of
100	IMAC	Sample	Detectable	Dates				Contaminant
			Results	(m/d/y)				
Alachlor	IMAC=5	1	1	04/11/02	<0.5		no	
Aldicarb	9	1	1	04/11/02	<5.0		no	
Aldrin+Dieldrin		1	1	04/11/02	<0.07		no	
	13446.6	 		04/11/02	+	-+-		
Atrazine	IMAC=5	 	1	04/11/02	<1.0		no	
Azinphos-methyl	20	1	1	04/11/02	<2.0		no	
Bendiocarb	40	1	1 1	04/11/02	<2.0		no	
Bromoxynil	IMAC=5	 		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	11_	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	<u> </u>
DDT + Metapolites	30	1	1	04/11/02	<3.0		no	
2,4 - Dichlorophenexy	IMAC=10	1	1 i	04/11/02	<1.0		no	
acid (2,4 -D)	0	1	1		1	-		ļ
Diclofop-methyl	9	1	1	04/11/02	<0.9		no	
Dimethoate	IMAC=20	1	 	04/11/02	<2.5		no	
Dinoseb	10	1-1-	1	04/11/02	<1.0			
Diquat	70	1	1 1	04/11/02	<7.0		no	
Diuron	150	1	1	T			no	
Glyphosate	150 IMAC=28			04/11/02	<10.0		no	
Gryphosate		1 1	1	04/11/02	<10.0	'	no	ļ
Hannahlan I W	0	+	 	04/11/02	-0.2	-+-		
Heprachlor + Heptachlor	3	1	1	04/11/02	<0.3		no]
epoxide	 -		+					
Lindane	4	1-1-	1 1	04/11/02	<0.4		no	
Malathion	190	1	1	04/11/02	<5.0		no	<u> </u>
Methoxychlor	900	1	11	04/11/02	<90		no	
Metolachlor	IMAC=50		11	04/11/02	<0.5		no	
Metribuzin	80	1_1_	1	04/11/02	<5.0		no	
Paraquat	IMAC=10		11	04/11/02	<1.0		no	
Parathion	50	1	11	04/11/02	<1.0		no	

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

Pentachlorophenol	60	1	1	04/11/02	<0.5	no	
Phorate	IMAC=2	1_	1	04/11/02	<0.5	no	
Picloram	IMAC=19 0	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=28 0	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=28 0	I	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	66	no	
Magnesium		1	1	01/21/02	29	no	
Potassium		1	1	01/21/02	6	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 Finch 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, 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.

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

Division of Caduceon Enterprises Inc.

Client:

ηtario Clean Water Agency

ndustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell **Certificate of Analysis**

Report:

220002968

Project:

Finch WTP

Date Sampled:

April 2, 2002

Date Received:

April 3, 2002

Date Printed:

April 05, 2002

Matrix:

Parameter Unit	MDL		Sample Identification				
			Well - Raw	WTP Treated	Dist. 83 Front	Dist. Seniors Res. (Kitchen)	
Total Chlorine	mg/L	0.05		2.20	1.90	1.90	
Free Chlorine	mg/L	0.05		1.90	1.70	1.30	
E. coli	/100mL	1	absent	absent	absent	absent	
Heterotrophic Plate Count	/mL	2	absent	8	absent		
Total Coliforms	/100mL	1	absent	absent	absent	absent	

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220003203

Project:

Finch WTP

Date Sampled:

April 8, 2002

Date Received: Date Printed: April 9, 2002 April 11, 2002

Matrix:

Parameter Uni	t MDL		Sample Identification					
			Well - Raw	WTP Treated	Dist. Barb's Diner	Dist. Sewage Pumping Station (SPS)		
Total Chlorine	mg/L	0.05		2.40	1.30	1.20		
Free Chlorine	mg/L	0.05		2.20	1.10	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	2		

Unit

MDL

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

ndustrial Dr.

Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Certificate of Analysis

Report:

220003352

Project:

Finch WTP

Date Sampled:

April 10, 2002

Date Received:

April 11, 2002

Date Printed:

April 15, 2002

Matrix:

Drinking Water

			Special SPS #1	Special Co-op Upstream	Special JLK Plumbing Upstream
Total Chlorine	mg/L	0.05	1.40	1.40	1.70
Free Chlorine	mg/L	0.05	1.20	1.20	1.40
E. coli	/100mL	1	absent	absent	absent
Heterotrophic Plate Count	/mL	2	absent	absent	absent
Total Coliforms	/100mL	1	absent	absent	absent

Sample Identification

Division of Caduceon Enterprises Inc.

Client:

ηtario Clean Water Agency

ndustrial Dr. Chesterville, ON

K0C 1H0

Attention: **Dave Markell** **Certificate of Analysis**

Report:

220003480

Project:

Finch WTP Date Sampled:

Date Received:

April 15, 2002

Date Printed:

April 16, 2002 April 18, 2002

Matrix:

WTP Treated	Dist. Smith Cartage	Dist. SPS #1
2.60	1.50	1.70
2.20	1.20	1.40
absent	absent	absent
absent	absent	
absent	absent	absent
	2.60 2.20 absent absent	2.60 1.50 2.20 1.20 absent absent absent

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220003772

Finch WTP

Project:

Date Sampled:

Date Received:

Date Printed:

April 22, 2002 April 23, 2002

April 25, 2002

Matrix:

Drinking Water

Michael Ziebell, General Manager

	Parameter	E. coli	Free CI2	НРС	тс	Total Cl2
	Unit	/100mL	mg/L	/mL	/100mL	mg/L
	MDL	1	0.05	2	1	0.05
Sample ID	·					
Well - Raw		absent		absent	absent	
WTP Treated		absent	2.10	absent	absent	2.20
Dist. Barb's		absent	1.80	absent	absent	2.80
Dist. St. Bernard's		absent	2.00		absent	2.20

Unit

MDL

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

Industrial Dr. Chesterville, ON

Parameter

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220004028

Project:

Finch WTP

Date Sampled:

April 29, 2002

Date Received:

April 30, 2002

Date Printed:

May 02, 2002

Matrix:

Drinking Water

				Well - Raw	WTP Treated	Dist. Water Tower	Dist. SPS
	Total Chlorine	mg/L	0.05		2.20	1.70	2.00
	Free Chlorine	mg/L	0.05		1.70	1.50	1.70
l	E. coli	/100mL	1	absent	absent	absent	absent
	Heterotrophic Plate Count	/mL	2		6	absent	
	Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample identification

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2204294

Date:

2002-04-17

ATT: Mr. Blair Henderson

Date Submitted:

2002-04-12

Project:

Finch - Quarterly Chem

P.O. Number:

Matrix: Supply Water

LAB ID:							
1		ple Date:					
	Sa	mple ID:	FW-01]			
]	Ì	Ì	Ì
	Т						<u></u>
PARAMETER UNITS MDL							
BTEX / 624 / PURGEABLE HYD			/	İ	1		
Benzene	ug/L	0.5	<0.5)		Ì	
Toluene	ug/L	0.5	<0.5)		İ	ì
Ethylbenzene	ug/L	0.5	<0.5			Ī	
m/p-xylene	ug/L	1.0	<1.0	}	}		1
o-xylene	ug/L	0.5	<0.5	}	}	1	
Bromodichloromethane	ug/L	0.3	25.1	}	ļ		
Bromoform	ug/L	0.4	2.0 🗸		{	}	
bon Tetrachloride	ug/L	0.9	<0.9~	{	ł	}	,
nochlorobenzene	ug/L	0.2	<0.2	{		[
Chloroform	ug/L	0.5	24.1				
Dibromochloromethane	ug/L	0.3	21.4 🗸			ļ	ļ
1,2-dichlorobenzene	ug/L	0.4	<0.4 ✓				Į.
1,4-dichlorobenzene	ug/L	0.4	<0.4 ~			ł	l
1,2-dichloroethane	ug/L	0.7	<0.7 ✓			Į.	ł
1,1-dichloroethylene	ug/L	0.5	<0.5 ✓				ľ
Dichloromethane	ug/L	4.0	<4.0]	Ĭ
Tetrachloroethylene	ug/L	0.3	<0.3				j
Trichloroethylene	ug/L	0.3	<0.3 ~			}	
Vinyl Chloride	ug/L	0.5	<0.5				
TOTALS	1				I		
Trihalomethanes (total)	ug/L	2.0	72.6		1		
Xylene; total	ug/L	2.0	<2.0 ✓				
BTEX / 624 Surrogate Recover	es				i		
Toluene-d8	%		98	1			1
1,2-dichloroethane-d4	%	}	89			i	
4-bromofluorobenzene	%		102		,		}
1	(

MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

608 Norris Court, Kingston, ON, K7P 2R9

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2204294

Date:

2002-04-19

Date Submitted:

2002-04-12

ATT: Mr. Blair Henderson

Project:

Finch - Quarterly Chem

P.O. Number:

Matrix: Supply Water

				Matrix:		Supply Water	
	L	AB ID:	176579				•
	Sample	Date:	2002-04-11				
	Sam	ple ID:	FW-01				
	Ou.ii	p.0		į	Į.		
	1 10070	1451					
PARAMETER	UNITS	MDL	TREATEDWATER				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	<0.10			1	
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: Finch Well Supply

ATT: Mr. Blair Henderson

Report Number:

2204294

Date:

2002-05-07

Date Submitted:

2002-04-12

Project:

Finch - Quarterly Chem

				•			,
				Sample Matri	x:	Supply Water	
		LAB ID:	176579	•		1	
	Sam	ple Date:	2002-04-11				
ļ		ample ID:	FW-01				
		•					
		i					
PARAMETER	UNITS	MDL					
PESTICIDES & PCB's							
Alachlor	mg/L	0.0005	<0.0005 V				
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 1/				İ
Bendiocarb	mg/L	0.0020	<0.0020 ∨	1			
Bromoxynil	mg/L	0.0005	<0.0005 🗸				
Carbaryl	mg/L	0.0050	<0.0050 🗸				?
rbofuran	mg/L	0.0050	<0.0050 ^{\(\cup\)}	į			
ordane (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	ı			
DDT	mg/L	0.0030	<0.0030 /				1
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	40.010 د				
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:

REPORT OF ANALYSIS

Client: Finch Well Supply

Report Number:

Date Submitted:

2204294

......

Date:

2002-05-07 2002-04-12

ATT: Mr. Blair Henderson

Project:

Finch - Quarterly Chem

			176579	Sample Matri	x:	Supply Water	·
		LAB ID: Sample Date:					
	San						
	S	ample ID:	FW-01				
PARAMETER	UNITS	MDL					
Metribuzin	mg/L	0.005	<0.005			 	
Paraquat	mg/L	0.003	<0.003		ļ		
Parathion	mg/L	0.0010	<0.0010) /]		
Pentachlorophenol	mg/L	0.0010	<0.0010				Į.
Phorate	mg/L	0.0005	<0.0005		1.		
Picloram	mg/L mg/L	0.0005	<0.0005	110 6	¥		
PCB's (total)	mg/L	0.0030	<0.0030	checker	ľ		
Prometryne		0.0003	<0.0003				
Simazine	mg/L	0.00025	<0.00025	ļ	ĺ		į.
	mg/L	0.0010	<0.0010				
mephos erbufos	mg/L	0.010	<0.007				}
	mg/L						Į
2,3,4,6-Tetrachlorophenol	mg/L	0.0005	<0.0005				ĺ
riallate	mg/L	0.0010	<0.0010	ļ	(İ
2,4,6-Trichlorophenol	mg/L	0.0005	<0.0005				İ
Trifluralin	mg/L	0.0010	<0.0010				
2,4,5-T	mg/L	0.0010	<0.0010			Į	Į
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ND = Not Detected (< MDL)

MDL = Method Detection Limit

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2204303

Date:
Date Submitted:

2002-04-17 2002-04-12

ATT: Mr. Blair Henderson

Project:

Finch - Quarterly Chem

P.O. Number:

Matrix: ____ Supply Water

				Matrix:		Supply Water	
		LAB ID:	176592				
	Sam	ple Date:	2002-04-11				
	Sample ID:		FW-01				
		-					
PARAMETER UNITS MDL							
BTEX / 624 / PURGEABLE HYD	ROCARBO						
Bromodichloromethane	ug/L	0.3	23.6				
Bromoform	ug/L	0.4	2.3				
Chloroform	ug/L	0.5	25.7				
Dibromochloromethane	ug/L	0.3	23.0				[
TOTALS	1						
Trihalomethanes (total)	ug/L	2.0	74.6			,	
BTEX / 624 Surrogate Recover	<u>ies</u>						
ene-d8	%		98				ĺ
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

608 Norris Court, Kingston, ON, K7P 2R9

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220004302

Project:

Finch WTP

Date Sampled:

May 6, 2002

Date Received:
Date Printed:

May 7, 2002 May 09, 2002

Matrix:

Parameter U	nit MDL		Sample Identification	Sample Identification				
			Well -Raw	WTP Treated	Dist. Seniors	Dist. Co-op		
Total Chlorine	mg/L	0.05		2.30	1.90	2.00		
Free Chlorine	mg/L	0.05		1.90	1.80	1.90		
E. coli	/100mL	1	absent	absent	absent	absent		
Heterotrophic Plate Cour	it /mL	2		absent	2			
Total Coliforms	/100mL	1	absent	absent	absent	absent		

Unit

MDL

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

o industrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Certificate of Analysis

Report:

220004586

Project:

Finch WTP

Date Sampled:

May 13, 2002

Date Received: Date Printed: May 13, 2002

May 15, 2002

Matrix:

Drinking Water

			Well #2 - Raw	WTP Treated	Dist. Separate School	Dist. Barb's Diner
Total Chlorine	mg/L	0.05		1.70	1.80	1.70
Free Chlorine	mg/L	0.05		1.30	1.60	1.40
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	2	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample Identification

Unit

MDL

Division of Caduceon Enterprises Inc.

∡lient:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Parameter

Dave Markell

Certificate of Analysis

Report:

220004900

Project:

Finch WTP

Date Sampled:

May 21, 2002

Date Received:

May 22, 2002

Date Printed:

May 24, 2002

Matrix:

Drinking Water

			Well - Raw	WTP Treated	Dist. Water Tower	Dist. Sonar
Total Chlorine	mg/L	0.05		1.90	1.50	2.20
Free Chlorine	mg/L	0.05		1.60	1.30	1.80
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Sample Identification

Division of Caduceon Enterprises Inc.

⊋lient:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220005177

Project:

Finch WTP

Date Sampled:

May 27, 2002

Date Received:

May 28, 2002

Date Printed:

May 30, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification					
			Well - Raw	WTP Treated	Dist. Barb's	Dist. Carl's		
Total Chlorine	mg/L	0.05		2.30	1.70	1.70		
Free Chlorine	mg/L	0.05		2.00	1.30	1.50		
E. coli	/100mL	1	absent	absent	absent	absent		
Heterotrophic Plate Count	/mL	2		absent	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent		

Division of Caduceon Enterprises inc.

Client:

ntario Clean Water Agency

o Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220005452

Project:

Finch WTP June 3, 2002

Date Sampled:
Date Received:
Date Printed:

June 4, 2002 June 06, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification	1		
			Well - Raw	WTP Treated	Dist. St. Bernard	Dist. SPS
Total Chlorine	mg/L	0.05		1.90	1.80	1.40
Free Chlorine	mg/L	0.05		1.70	1.80	1.30
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

Division of Caduceon Enterprises Inc.

Client:

itario Clean Water Agency

of Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220005850

Project:

Finch WTP

Date Sampled:

June 10, 2002

Date Received:
Date Printed:

June 11, 2002 June 13, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification	on	<u>.</u>	
			Well - Raw	WTP Treated	Dist. Barb's Diner	Dist. St. Bernard's School
Total Chlorine	mg/L	0.05		1.90	1.60	2.00
Free Chlorine	mg/L	0.05		1.60	1.40	1.70
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		4	8	
Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220006125

Project:

Finch WTP

Date Sampled:

FILICII VV IF

Date Received:

June 17, 2002

Date Printed:

June 18, 2002 June 20, 2002

Matrix:

Unit	MDL	Sample Identification	<u> </u>		
		Well - Raw	WTP Treated	Dist. Water Tower	Dist. Barb's
mg/L	0.05		1.90	1.60	1.20
mg/L	0.05		1.60	1.50	1.10
/100mL	1	absent	absent	absent	absent
/mL	2		absent	absent	
/100mL	1	absent			
/100mL	1	absent	absent	absent	absent
	mg/L mg/L /100mL /mL /100mL	mg/L 0.05 mg/L 0.05 /100mL 1 /mL 2 /100mL 1	Well-Raw mg/L 0.05 mg/L 0.05 /100mL 1 absent /mL 2 /100mL 1 absent	Well-Raw WTP Treated mg/L 0.05 1.90 mg/L 0.05 1.60 /100mL 1 absent absent /mL 2 absent /100mL 1 absent	Well - Raw WTP Treated Dist. Water Tower mg/L 0.05 1.90 1.60 mg/L 0.05 1.60 1.50 /100mL 1 absent absent /100mL 2 absent absent /100mL 1 absent

Division of Caduceon Enterprises Inc.

Client:

itario Clean Water Agency

o Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220006430

Project:

Date Sampled:

Date Received:

Date Printed:

June 24, 2002 June 25, 2002

June 27, 2002

Finch WTP

Matrix:

Parameter	Unit	MDL	Sample Identification	on		
			Well - Raw	WTP Treated	Dist. SPS	Dist. Sonar
Total Chlorine	mg/L	0.05		1.60	1.10	1.10
Free Chlorine	mg/L	0.05		1.30	1.00	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

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

Finch Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Finch 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



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

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Plant Description & Treatment Processes	2
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Water Quality Test Results	4
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July - September 2001, Finch Water Plant - Serving the Village of Finch

Finch Drinking Water Quality

Ontario Drinking Water Protection Regulations

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Where to contact us for information



Web site at www.ocwa.com

Client Services Representative: John Kingsbury

Phone: (613) 821-3371

E-mail Address: ikingsbury@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

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INSIDE THIS REPORT

Drinking	Water Regulations
Where To	Contactilist is the superior that the contact is the contact of the contact is the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of the contact of th
Plant Des	cription & Treatment Processes 1246 2
Quality C	omrol and Compliance with Provincial Regulations (30)
	s & Jems, 124, 1982 April 1984 Paril 1985 Paril 1985 Paril 1986 Paril 1986 Paril 1986 Paril 1986 Paril 1986 Pa
Required	
	ality fest Results 12 4
Questions	& Answers 27

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

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: Finch WTP & Distribution System

Total Design Capacity 778 cubic meters/day

Raw Water Source Groundwater

Disinfection Method Sodium Hypochlorite

Municipal Location Municipal Office, 2 Victoria Street, Berwick

Service Area Village of Finch

Service Population 441

Operational Description:

Raw Water Source: Two drilled wells located at 20 William Street in the Village of Finch.

Low Lift Pumps: Two submersible well pumps, one duty and one standby, direct the water from the wells to a 9.5 L/second force draft aeration tower, where H2S is removed from the raw water. Water from the aeration tower is chemically injected with Sodium Hypochlorite for disinfection, prior to entry to the 20 cubic meter clear well.

High Lift Pumps: Two high lift pumps, one duty and one standby, move the chlorinated water from the clear well to the pressure filters.

Filters: Two 4 Litre/second dual media pressure filters, remove particles from the chlorinated water. Filter backwash treatment system consists of a 15 cubic meter surge tank, with a 1.4 cubic meter settling tank and an 18 cubic meter sludge holding tank.

Elevated Storage Tank: The plant treated water, after filtration, is directed to the distribution grid and elevated storage tank with a capacity of 580 cubic meters.

<u>Distribution System</u>: There are approximately 441 persons supplied with water from the Finch Water Treatment Plant.

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

Introduction

We are proud to report that for the period July to September 2001, 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: Finch WTP & Distribution System

Fotal Design Capacity 691 cubic meters/day

Raw Water Source Groundwater

Disinfection Method Sodium Hypochlorite

Municipal Location Municipal Office, 2 Victoria Street, Berwick

Service Area Village of Finch

Service Population 441

Operational Description:

Raw Water Source: Two drilled wells located at 20 William Street in the Village of Finch.

Low Lift Pumps: Two submersible well pumps, one duty and one standby, direct the water from the wells to a 9.5 L/second force draft aeration tower, where H2S is removed from the raw water. Water from the aeration tower is chemically injected with Sodium Hypochlorite for disinfection, prior to entry to the 20 cubic meter clear well.

High Lift Pumps: Two high lift pumps, one duty and one standby, move the chlorinated water from the clear well to the pressure filters.

Filters: Two 4 Litre/second dual media pressure filters, remove particles from the chlorinated water. Filter backwash treatment system consists of a 15 cubic meter surge tank, with a 1.4 cubic meter settling tank and an 18 cubic meter sludge holding tank.

Elevated Storage Tank: The plant treated water, after filtration, is directed to the distribution grid and elevated storage tank with a capacity of 580 cubic meters.

Distribution System: There are approximately 441 persons supplied with water from the Finch Water Treatment Plant.

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

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 Finch 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?

With respect to Operational Parameters, no reportable excedances were experienced.

Definitions & Terms

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

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.

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 performing the test methods.
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- 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, in the month of July, 2 samples from the distribution system were found to exceed the Ontario Drinking Water Standards as set out in Ontario Regulation 459/00. As a result we actively undertook the following remedial actions:

Immediately notified the Mininstry of Environment as per O.D.W.O.. Ensured a minimum chlorine residual in the distribution of greater then 0.2 mg/L. Subsequent re-sampling indicated no adverse results.

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

 m^3 - Cubic Meter, $1m^3 = 1000$ litres

TCU - True Colour Units

CaCO₃ - 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.

Finch Water Quality Test Results

Microbiological Parameters	MAC or IMAC	# of Samples	# of Detectable Results	Sampling Dates (m/d)	Range	Exceedence?	Typical Source of Contaminant
Total Coliform (counts/100ml)	0	42	0	07/01-09/30	n/a	no	Indicate possible presence of coliform
Escherichia Coliform (counts/100ml)	0	42	0	07/01-09/30	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (counts/100ml)	500	28	12	07/01-09/30	2-478	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)	Range	Exceedence?	Typical Source of Contaminant

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

Definitions & Terms

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Finch Water Quality Test Results

Microbiological, Remoticisal		k of see	# of Dejectable Results	Sampling Dates (m/dy)	Kangter	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Cypical Sollice of Contaminants
Total Coliform (counts/100ml)	0	45	1	07/01/01- 09/30 / 01	0-1	yes	Indicate possible presence of coliform
Escherichia Coliform (counts/100ml)	0	45	0	07/01/01- 09/30/01	n/a	no	Definite indicator of fecal contamination
Heterotrophic Plate Count (counts/100ml)	500	34	10	07/01/01- 09/30/01	2 ->500	yes	Indicator of deteriorating water quality if greater than 500
Parameters related to Microbiological				Sampling Dates			Typical Source of Confaminant

QUARTERLY REPORT ON DRINKING WATER QUALITY July-September 2002, Finch Water Plant - Serving the Village of Finch

Turbidity (NTU)	1	Continuous	Continuous	07/01-09/30	0.11-0.58	no	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	07/01-09/30	1.09-2.40	no	Chlorine added for Disinfection
Free Chlorine- Distribution (mg/l min 0.05 & max. 4.0)	-	Grab Sample weekly	weekly	07/01-09/30	0.70-2.20	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 (ug/l)	0.01	1	1	01/21/02	0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	08/08/02	0.11	no	Natural component of water
Nitrite	1	1	1	08/08/02	<0.1	no	
Arsenic	IMAC= 0.025	1	1	09/18/00	<0.001	no	
Barium	1	1	1	09/18/00	0.43	no	
Boron	1MAC= 5.0	1	1	09/18/00	0.17	no	
Cadmium	0.005	1	1	09/18/00	< 0.0001	no	
Chromium (Total)	0.05	1	1	09/18/00	< 0.01	no	
Copper	1	_ 1	1	09/18/00	0.013	no	
Iron	0.3	1	1	09/18/00	< 0.01	no	
Lead	0.01	I	1	09/18/00	< 0.001	no	
Manganese	0.05	1	1	09/18/00	<0.01	no	
Mercury	0.001	1	1	09/18/00	< 0.0001	no	
Selenium	0.01	1	1	09/18/00	< 0.001	no	
Uranium	0.1	1	1	09/18/00	< 0.001	no	
Sodium (System)	200	2	2	01/21/02- 02/13/02	82-77	no	
Fluoride	2.4	1	1	01/21/02	0.47	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	I	1	08/08/02	50.9	no	
Trihalomethanes - Dist.	100	1	1	08/08/02	59.8	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	i	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	1	1	08/08/02	<2	no	
Bromodichloromethane	n/a	1	1	08/08/02	16.3	no	
Bromoform	n/a	1	1	08/08/02	< 0.4	no	
Chloroform	n/a	1	1	08/08/02	16.8	no	
Dibromochloromethane	n/a	1	1	08/08/02	17.8	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	

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

Quality 4-1 (1894)	DAAC		Results	(0.05)	SECTION AND		
Turbidity (NTU)	i	daily	daily	07/01/01-	0.11-0.38	no	Turbidity is a measure of
1	•		,	09/30/01	0.11 0.50	110	particles in water
Free Chlorine -		Continuous	Continuous	07/01/01-	1.3-2.33	no	Chlorine added for
Plant Effluent (mg/l)				09/30/01			disinfection
Free Chlorine-	-	Grab	weekly	07/01/01-	0.6-2.2	no	Objective is 0.20 mg/l in
Distribution (mg/l min 0.05	ļ	Sample	•.	09/3 0 /01	i	ļ	the Distribution System
& max. 4.0)		weekly					(min. 0.05 mg/l required)
inorganic Parameters (mg/i)	MAC	# 01		. Sampling	Range 18	Exceedence)	Typical Source of 🚜
		Samples		Dates	100		Contaminant is a second
Land Distribution (carl)	IMAC	1	Results	(m/d/y) 02/01/01	0.001		I 1 C 1 1 -11
Lead - Distribution (ug/l)	0.01	l	1	02/01/01	0.001	no	Leached from lead solder or brass plumbing
	ļ						fixtures
Nitrate	10	i		08/08/01	<0.1	no	Natural component of
Made	''		•	00,00,01	-0.1	110	water
Nitrite	1	1	1	08/08/01	<0.1	no	
Arsenic	IMAC=	1	1	09/18/00	<0.001	no	
Darium	0.025	1	1	09/18/00	0.43	no	
Barium Boron	IMAC=	1	1	09/18/00	0.43	no no	
Boron	5.0	1	1			110	
Cadmium	0.005	1	1	09/18/00	< 0.0001	no	
Chromium (Total)	0.05	1	1	09/18/00	<0.01	no	
Copper	<u>l</u>	1	1	09/18/00	0.013	no	
Iron	0.3	1	1	09/18/00	<0.01	no	
Lead	0.01	1	1	09/18/00	< 0.001	no	
Manganese	0.05	1	1	09/18/00	<0.01	no	
Mercury	0.001	1	1	09/18/00	<0.0001	no	
Selenium	0.01	1	1	09/18/00	<0.001	no	
Uranium	0.1	1	1	09/18/00	<0.001	no	
Sodium (System)	200	1	1	02/01/01 02/01/01	80 0.5	no	
Fluoride	2.4	1	1			no Forcesessors	
Volatife Organics (rg/)	MAC or IMAC 4	Sumples	Kof Defectable	Sampling Dates	Runne	t a comment	(Traicat Source of Contaminant
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	-	1.2	Results	Himay)			
Trihalomethanes - Plant	100	1	1	08/08/01	87.4	no	
Trihalomethanes - Dist.	100	1	1	08/08/01	0	no	System sample lost in transit. Re-sampled Oct.25/01.MoE notified.
Benzene	5	+ 1	 	08/08/01	<0.5	no	Oct.25/01.MOE Hothica.
Carbon Tetrachloride	5	 	 	08/08/01	<0.9	no	
Dichloromethane	50	1	1	08/08/01	<4	no	
1,2 - Dichlorobenzene	200	1 1	+ i -	08/08/01	<0.4	no	
1, 4 - Dichlorobenzene	5	i	1	08/08/01	<0.4	no	
1,2 - Dichloroethane	IMAC=	1	1	08/08/01	<0.7	no	
1,1 - Dichloroethylene	14	1	1	08/08/01	<0.5	no	
Ethylbenzene	24	1	1 -	08/08/01	<0.5	no	
Monochlorobenzene	80	1	 	08/08/01	<0.2	no	
Tetrachloroethylene	30	1	1	08/08/01	<0.3	no	
Toluene	24	1	1	08/08/01	<0.5	no	
Trichloroethlyene	50	1	1	08/08/01	<0.3	no	
Vinyl chloride	2	1	1	08/08/01	<0.5	no	
Xylene	300	1	1	08/08/01	<2.0	no	
Bromodichloromethane	n/a	1	1	08/08/01	21.3	no	
Bromoform	n/a	1	1	08/08/01	3.3	no	
Chloroform	n/a	1	1	08/08/01	33.1	no	
Dibromochloromethane	n/a	1 1	11	08/08/01	29.7	no	L

Pesticides & PCB (ug/t.) 2 1 MAC on 10 17 of 18 of 2 Sampling Range of Pacestonics Lynical Source of Contaminant 5 Contaminant 5

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

Aldicarb	9	1	1	08/08/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	08/08/02	< 0.018	no	
Atrazine	IMAC=5	1	1	08/08/02	<1.0	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	<u> </u>
Chorpyrifus	90	<u> </u>	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	$\frac{1}{1}$	1	08/08/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	08/08/02	<0.5	no	
DDT + Metabolites	30	1	1	08/08/02	<0.024	no	
2,4 - Dichlorophenexy acid	IMAC=100	1	1	08/08/02	<1.0	no	
(2,4 -D)		•	•	00,00,02	1,.0	110	
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	i	08/08/02	<1.0	no	
Diquat	70		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	3	1	1	08/08/02	< 0.012	no	
epoxide	1 1	•	•	00.00,02	0.012	110	
Lindane	4	1	I	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	08/08/02	<1.0	no	
Parathion	50	1	1	08/08/02	<1.0	no	
Pentachlorophenol	60		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	<u>_</u>	1	08/08/02	<1.0	no	
Temephos	IMAC=280	1	1	08/08/02	<10	no	
Terbufos	IMAC=280	1	1	08/08/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	1	08/08/02	<0.7	no	<u> </u>
Triallate	230	1	1	08/08/02	<1.0	no	<u> </u>
2,4,6-Trichlorophenol	5	<u>1</u>	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	
1 I I I I I I I I I I I I I I I I I I I			L	00/00/02	1.0	110	لـــــــــــــــــــــــــــــــــــــ

Additional Parameters	AO or OG	# of	# of	Sampling	Range	Exceedence?	Typical Source of
Non-Health Related (mg/L)		Samples	Detectable	Dates			Contaminant
			Results	(m/d/y)			
Calcium		1	1	01/21/02	66	no	
Magnesium		1	1	01/21/02	29	no	
Potassium		1	1	01/21/02	6	no	

Questions & Answers

Q. What is an Accredited Laboratory?

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

		4.00	Reputs	(m/ds)	1962		Charles and
Alachlor	IMAC=5	1	1	08/08/01	<0.5	no	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Aldicarb	9	1	1	08/08/01	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	08/08/01	<0.07	no	
Atrazine	IMAC=5	1	1	08/08/01	<0.49	no	
Azinphos-methyl	20	1	1	08/08/01	<2.0	no	
Bendiocarb	40	1	1	08/08/01	<2.0	no	
Bromoxynil	IMAC=5	1 .	1 -	08/08/01	<0.5	no	
Carbaryl	90	<u> </u>	<u> </u>	08/08/01	<5.0	no	
Carbofuran	90	1	1	08/08/01	< 5.0	no	
Chlordane	7	1	1	08/08/01	<0.7	no	
Chorpyrifus	90	1	1	08/08/01	<1.0	no	
Cyanazine	IMAC=10	1	1	08/08/01	<1.0	no	
Diaznon	20	1	1	. 08/08/01	<1.0	no	
Dicamba	120	1	i	08/08/01	<1.0	no	
2,4 Dichlorophenol	900	1	i	08/08/01	<0.5	no	
DDT + Metapolites	30	1	1	08/08/01	<3.0	no	
2,4 - Dichlorophenexy acid	IMAC=100		 î	08/08/01	<1.0	no	
(2,4 -D)		•	•	00,00,01	~1.0	110	
Diclofop-methyl	9	1	1	08/08/01	<0.9	no	
Dimethoate	IMAC=20	1	<u>i</u>	08/08/01	<2.5	no	
Dinoseb	10	1	<u>i</u>	08/08/01	<1.0	no	
Diquat	70	1	i	08/08/01	<7.0	no	
Diuron	150	1	1	08/08/01	<10.0	no	
Glyphosate	IMAC=280	<u>1</u>	<u> </u>	08/08/01	<10.0	no	
Heprachlor + Heptachlor	3	1	1	08/08/01	<0.3	no	
epoxide		1	•	00/00/01	\0.5	110	
Lindane	4	1	<u></u>	08/08/01	<0.4	no	
Malathion	190	<u> </u>	<u>i</u>	08/08/01	<5.0	no	
Methoxychlor	900	i	- i	08/08/01	<90.0	no	
Metolachlor	IMAC=50	1	i :	08/08/01	<0.5	no	
Metribuzin	80	1	 1	08/08/01	<5.0	no	
Paraquat	IMAC=10	1	<u> </u>	08/08/01	<1.0	no	
Parathion	50	<u> </u>	î	08/08/01	<1.0	no	
Pentachlorophenol	60	- i	- 1	08/08/01	<0.5		
Phorate	IMAC=2	1	1	08/08/01	<0.5	no	
Picloram	IMAC=190	1	1	08/08/01	<5.0	no	
Polychlorinated Biphenyls	IMAC=3	- i	1	08/08/01	<0.3	no	
Prometryne	IMAC=1	1		08/08/01	<0.25	no	
Simazine	IMAC=10	1	1	08/08/01	<1.0	no	
Temephos	IMAC=10	1	1	08/08/01	<1.0	no	
Terbufos	IMAC=1	1	1 1	08/08/01	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	$\frac{1}{1}$	1	08/08/01	<0.7	no	
Triallate	230	1		08/08/01	<1.0	no	
2,4,6-Trichlorophenol	5		1	08/08/01		no	
	, ,	1	1	08/08/01	<0.5	no	
2,4,5 - trichlorophenoxy	IMAC=280	1	1	08/08/01	<1.0	no	
acedic acid							
Trifluralin	45	1	1	08/08/01	<1.0	no	

Questions & Answers

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

- 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 Finch 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, 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.

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

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

FINCH WATER REQUIRED SAMPLES

JULY, AUGUST, SEPTEMBER 2002

Chemical Parameters

Bacti Parameters

Raw Weil#1or2	E.Coli	Total Coli.	Background
Treated	E.Coli	Total Coli.	HPC
System 2 Sites	E.Coli	Total Coli.	HPC 25%

				Date Samples		Date Results	
				Collected	Initials	Received	Initials
Table B & D NO2&NO3		Treated Treated					
System THM		Treated	1				· · · · · · · · · · · · · · · · · · ·
Flouride	annual	Treated	1 1				
Sodium	annuai	Treated	1				
B.O.D.		Backwash	1	1889			
S.S		Backwash	1				
T.Phos		Backwash	V				
ph		Backwash					
E.Coli		Backwash	1				
T.Coli		Backwash	W				

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. 5	Dacus	· · · · · · · · · · · · · · · · · · ·
AUG 12	Bacti's	

SEPT. 2	Bacti's	
SEPT. 9	Bacti's	1
SEPT. 16	Bacti's	
SEPT. 23	Bacti's	
SEPT. 30	Bacti's	

Bacti's

Bacti's

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

AUG. 19

AUG. 26

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Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

o Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220006761

Project:

Finch WTP

Date Sampled:

July 2, 2002

Date Received:

July 3, 2002

Date Printed:

July 05, 2002

Matrix:

Parameter	Unit	MDL	Sample Identifica	ition		
			Well - Raw	WTP Treated	Dist. Seniors	Dist. St. Bernard's
Total Chlorine	mg/L	0.05		2.30	0.90	2.00
Free Chlorine	mg/L	0.05		2.00	0.80	1.60
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		2	50	
Background bacteria	/100mL	1	absent			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220007056

Project:

Finch WTP

Date Sampled:

July 8, 2002

Date Received:

July 9, 2002

Date Printed:

July 11, 2002

Matrix:

Drinking Water

	Parameter	Unit	MDL	Sample Identification	on		
				Well - Raw	WTP Treated	Dist. Barb's	Dist. Water Tower
	Total Chlorine	mg/L	0.05		2.30	1.20	2.10
	Free Chlorine	mg/L	0.05		1.90	0.90	1.90
	E. coli	/100mL	1	absent	absent	absent	absent
	Heterotrophic Plate Count	/mL	2		absent	16	
	Background bacteria	/100mL	1	absent			
	Total Coliforms	/100mL	1	absent	absent	absent	absent

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

Michael Ziebell, General Manager

Division of Caduceon Enterprises Inc.

Client:

itario Clean Water Agency

ondustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220007322

Project:

Finch WTP

Date Sampled:

July 15, 2002

Date Received: Date Printed: July 16, 2002 July 18, 2002

Matrix:

Parameter	Unit	MDL	Sample Identificatio	n		
			Well - Raw	WTP Treated	Dist. Fosters	Dist. Patsy's Diner
Total Chlorine	mg/L	0.05		2.10	1.30	1.40
Free Chlorine	mg/L	0.05		1.80	1.10	1.30
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

Division of Caduceon Enterprises Inc.

Certificate of Analysis

∠lient:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Report:

220007574

Project:

Finch WTP

Date Sampled:

July 22, 2002

Date Received: Date Printed:

July 23, 2002 July 25, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification			
				Well - Raw	WTP Treated	Dist. SPS #1	Dist. Magu Sonar
	Total Chlorine	mg/L	0.05		2.30	1.00	1.60
	Free Chlorine	mg/L	0.05		2.10	0.90	1.20
i :	E. coli	/100mL	1	absent	absent	absent	absent
	Heterotrophic Plate Count	/mL	2		absent	absent	
l	Background bacteria	/100mL	1	absent			
	Total Coliforms	/100mL	1	absent	absent	absent	absent
1							

Division of Caduceon Enterprises Inc.

⊆lient:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220007875

Project:

Finch WTP

Date Sampled:

July 30, 2002

Date Received: Date Printed:

July 31, 2002 August 02, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification	on		
				Well - Raw	WTP Treated	Dist. Barb's Diner	Dist. Senior Support Center
	Total Chlorine	mg/L	0.05		2.50	1.80	2.20
Ì	Free Chlorine	mg/L	0.05		2.20	1.40	2.00
ŀ	E. coli	/100mL	1	absent	absent	absent	absent
Ì	Heterotrophic Plate Count	/mL	2		absent	12	
	Background bacteria	/100mL	1	absent			
	Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220008068

Project:

Finch WTP

Date Sampled:

August 6, 2002

Date Received: Date Printed:

August 7, 2002 August 09, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification			
			Well - Raw	WTP Treated	Dist. Water Tower	Dist. Barb's
Total Chlorine	mg/L	0.05		2.30	2.00	1.20
Free Chlorine	mg/L	0.05		2.00	1.80	1.10
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
	•					

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

5 Industrial Dr. Chesterville, ON K0C 1H0

Attention: **Parameter** Dave Markell

Unit

MDL

Certificate of Analysis

Report:

220008350

Project:

Finch WTP

Date Sampled:

August 12, 2002

Date Received: Date Printed:

August 13, 2002 August 15, 2002

Matrix:

Drinking Water

							
			Well Raw	WTP Treated	Dist. 3163 Rd #12	Dist. Senior Center	Well #2 Raw
Total Chlorine	mg/L	0.05		2.00	1.70	1.70	
Free Chlorine	mg/L	0.05		1.90	1.50	1.50	
E. coli	/100mL	1	absent	absent	absent	absent	absent
HPC	/mL	2		4	20		
Background bacteria	/100mL	1	absent				absent
Total Coliforms	/100mL	1	absent	absent	absent	absent	absent

Sample Identification

Division of Caduceon Enterprises Inc.

<u>Cli</u>ent:

ario Clean Water Agency

5 Industrial Dr. Chesterville, ON

K0C 1H0 Attention:

Dave Markell

Certificate of Analysis

Report:

220008620

Project:

Finch WTP

Date Sampled:

August 19, 2002

Date Received: Date Printed:

August 20, 2002 August 22, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	WTP Treated	Dist. Smith Cartage	Dist. SPS #1	
Total Chlorine	mg/L	0.05		2.30	1.90	1.00	
Free Chlorine	mg/L	0.05		2.10	1.60	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	

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

industrial Dr. Chesterville, ON

K0C 1H0 Attention:

Dave Markell

Certificate of Analysis

Report:

220008935

Project:

Finch WTP

Date Sampled:

August 26, 2002

Date Received:

August 27, 2002

Date Printed:

August 29, 2002

Matrix:

Dist. Pump Station #1
0.90
0.80
absent
absent

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2210860

Date:

2002-08-19

Date Submitted:

2002-08-09

Project:

Finch Wells

P.O. Number:

				Matrix:		Supply Water		
		LAB ID:	198048					
1	Sampl	le Date:	2002-08-08					
1	San	nple ID:	FW-01					
		•		j				
			1	1	j		1	
PARAMETER	UNITS	MDL	TREATEDWATER					
N-NO2	mg/L	0.10	<0.10					
N-NO3	mg/L	0.10	0.11 🗸			Ì]	
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MDL = Method Detection Limit

INC = Incomplete

Comment:

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2210860

Date:

2002-08-19

Date Submitted:

2002-08-09

Project:

Finch Wells

P.O. Number:

Matrix: Supply Water

				mau ix.		Supply water	
		LAB ID:	198048				
	Sam	ple Date:	2002-08-08				
	Sa	mple ID:	FW-01				
Į.				ļ	ļ	į	1
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 🗸			į.	<u> </u>
m/p-xylene	ug/L	1.0	<1.0				
o-xylene	ug/L	0.5	<0.5 🗸				
Bromodichloromethane	ug/L	0.3	16.3	}		ľ	1
Bromoform	ug/L	0.4	<0.4				
bon Tetrachloride	ug/L	0.9	<0.9 🗸				
nochlorobenzene	ug/L	0.2	<0.2	1			
Chloroform	ug/L	0.5	16.8 🗸				
Dibromochloromethane	ug/L	0.3	17.8 🗸				
1,2-dichlorobenzene	ug/L	0.4	<0.4 √	ļ			}
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	1			
Dichloromethane	ug/L	4.0	<4.0√				
Tetrachloroethylene	ug/L	0.3	<0.3 √				
Trichloroethylene	ug/L	0.3	<0.3				1
Vinyl Chloride	ug/L	0.5	<0.5 ✓				
TOTALS			,				
Trihalomethanes (total)	ug/L	2.0	50.9 🗸				
Xylene; total	ug/L	2.0	<2.0 ✓				
BTEX / 624 Surrogate Recover							
Toluene-d8	%		97				
1,2-dichloroethane-d4	%		101				
4-bromofluorobenzene	%		101				
	I	[(1

MDL = Method Detection Limit

Comment:

INC = Incomplete



REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

Date Submitted:

2210860

Date:

2002-08-29 2002-08-09

ATT: Mr. Blair Henderson

Project:

Finch Wells

				Sample Matri	x:	Supply Water	
		LAB ID:	198048				
1	Sam	ple Date:	8/8/02				
	Sa	ample ID:	FW-01				
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 🗸				1
Atrazine+Desethyl-atrazine	ug/L	1	<1 ,				
Azinphos-methyl	ug/L	2	<2 /				
diocarb	ug/L	2	<2 J				
noxynil	ug/L	0.5	<0.5				İ
Carbaryl	ug/L	5	<5 //				
Carbofuran	ug/L	5	<5 V				
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 🗸				4
Cyanazine	ug/L	1	<1 J				
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 🗸				J J
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

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2210860

Date:

2002-08-29

Date Submitted:

2002-08-09

ATT: Mr. Blair Henderson

Project:

Finch Wells

Sample Matrix:

Supply Water

				Sample Matri	x:	Supply Water		
		LAB ID:						
	Sam	ple Date:						
	Sa	ample ID:	FW-01					
		-				1	1	
PARAMETER	UNITS	MDL				 		
p,p'-DDD	ug/L	0.006	<0.006					
Diclofop-methyl	ug/L	0.9	<0.9	ļ]			
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 🗸	ſ		}		
Heptachlor epoxide	ug/L	0.006	<0.006 🗸					
Heptachlor + Hept. Epoxide	ug/L	0.012	<0.012			J		
ane	ug/L	0.006	<0.006					
Iviarathion	ug/L	5	<5 ✓					
Methoxychlor	ug/L	0.024	<0.024					
Metolachlor	ug/L	0.5	<0.5					
Metribuzin	ug/L	5	<5			1		
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 /			1		
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 J					

NOTE: mg/L=1000xug/L

MDL = Method Detection Limit

Comment:

APPROVAL: WW

ow >

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2210856

Date:

2002-08-16

Date Submitted:

2002-08-09

ATT: Mr. Blair Henderson

Project:

P.O. Number:

					Supply Water		
		LAB ID:	198044				
	Sam	ple Date:	2002-08-08				
		mple ID:					
		•	•				!
PARAMETER	UNITS	MDL					
BTEX / 624 / PURGEABLE HYD	ROCARBO	ONS					
Bromodichloromethane	ug/L	0.3	18.8				
Bromoform	ug/L	0.4	<0.4				
Chloroform	ug/L	0.5	19.3				
Dibromochloromethane	ug/L	0.3	21.7				
TOTALS			,	}			
Trihalomethanes (total)	ug/L	2.0	_{59.8} 🗸				
BTEX / 624 Surrogate Recoveri	ies						
lene-d8	%		96				
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	1	1		1			

MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL:

608 Norris Court, Kingston, ON, K7P 2R9

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

ndustrial Dr. Chesterville, ON

KOC 1HO Attention:

Dave Markell

Certificate of Analysis

Report:

220009261

Project:

Finch WTP

Date Sampled: Date Received:

September 3, 2002 September 4, 2002

Date Printed:

September 06, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification	on		
			Raw Well	WTP Treated	Water Tower	Barb's
Total Chlorine	mg/L	0.05		2.10	1.70	1.40
Free Chlorine	mg/L	0.05		2.00	1.40	1.30
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

Division of Caduceon Enterprises Inc.

Client:

intario Clean Water Agency

Industrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell **Certificate of Analysis**

Report:

220009543

Project:

Finch WTP

Date Sampled:

Date Received:

September 9, 2002 September 10, 2002

Date Printed:

September 12, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification					
				Well Raw	WTP Treated	Dist. St. Bernard's	Dist. SPS #1		
	Total Chlorine	mg/L	0.05		2.20	1.70	0.80		
	Free Chlorine	mg/L	0.05		2.00	1.40	0.70		
	E. coli	/100mL	1	absent	absent	absent	absent		
	Heterotrophic Plate Count	/mL	2		absent	478			
P	Background bacteria	/100mL	1	absent					
	Total Coliforms	/100mL	1	absent	absent	absent	absent		

Division of Caduceon Enterprises Inc.

C'.ent:

ptario Clean Water Agency

hdustrial Dr.

Chesterville, ON K0C 1H0

Attention:

Dave Markeli

Certificate of Analysis

Report:

220009884

Project:

Finch WTP

Date Sampled:

Date Received:

September 16, 2002 September 17, 2002

Date Printed:

September 19, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification			
			Well - Raw	WTP Treated	Dist. Foster Acres House -20 Main	Dist. Barb's Diner
Total Chlorine	mg/L	0.05		2.20	2.19	1.49
Free Chlorine	mg/L	0.05		1.99	1.87	1.38
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

Division of Caduceon Enterprises Inc.

Client:

<u>Ontario Clean Water Agency</u>

lustrial Dr. Chesterville, ON

K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220010230

Project:

Finch WTP

Date Sampled:

Date Received:

September 23, 2002

September 24, 2002

Date Printed:

September 26, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	Well - Treated	Dist. Fire Hall	Dist. Smith Cartage	
Total Chlorine	mg/L	0.05		2.10	2.00	1.70	
Free Chlorine	mg/L	0.05		1.90	1.80	1.60	
E. coli	/100mL	1	absent	absent	absent	absent	
Heterotrophic Plate Count	/mL	2		absent	110		
Background bacteria	/100mL	1	absent				
Total Coliforms	/100mL	1	absent	absent	absent	absent	
i							

Division of Caduceon Enterprises inc.

Client:

Ontario Clean Water Agency

ndustrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220010460

Project:

Finch WTP Date Sampled:

Date Received:

September 30, 2002

Date Printed:

October 1, 2002 October 03, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification					
				Well - Raw	WTP Treated	Dist. County Bldg	Dist, St. Bernards School		
	Total Chlorine	mg/L	0.05		1.90	1.70	1.80		
1	Free Chlorine	mg/L	0.05		1.70	1.60	1.60		
٠,	E. coli	/100mL	1	absent	absent	absent	absent		
1	Heterotrophic Plate Count	/mL	2		8	2			
,	Background bacteria	/100mL	1	absent					
	Total Coliforms	/100mL	1	absent	absent	absent	absent		
,									

REPORT OF ANALYSIS

Client: OCWA Chesterville

Report Number:

2213036

Date:

2002-09-26

ATT: Dave

Date Submitted:

2002-09-20

Project:

PA Number

				P.O. Number	:			
				Matrix:		Water ∮	-ILTER	BACKWASH
		LAB ID:	206273	206274		T		<u> </u>
	Sampl	le Date:	2002-09-19	2002-09-19				
1	San	nple ID:	FW-100	FW-200				
					İ	1		}
24244					<u> </u>]	1	
PARAMETER BOD5	UNITS	MDL						
pH	mg/L	1	41]				
Total P			8.38	1	i	ĭ	}	
	mg/L	0.01	0.69	ſ	ļ	İ		ļ
Total Suspended Solids	mg/L	2	102			1	Ì]
Background Colonies	ct/100 mL			>200		ł	(
Escherichia Coli	ct/100 mL			<10		į.		ľ
Total Collforms	ct/100 mL			OG	Į.	· I	4	
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ADI - Made at Date in the							ŀ	1

MDL = Method Detection Limit

Comment:

INC = incomplete

OG = Overgrown - The presence of a large number of bacteria interfered with the Total Coliform analysis.

608 Norris Court, Kingston, ON, K7P 2R9

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

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

Finch Drinking Water Quality

Ontario Drinking Water Protection Regulations

The Ontario Clean Water Agency, as the contract operator of the Finch 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



Web site at www.ocwa.com

Client Services Representative:

John Kingsbury

Phone: (613) 774-3663

E-mail Address: <u>jkingsbury@ocwa.com</u>

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



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

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: Finch WTP & Distribution System

Total Design Capacity 778 cubic meters/day

Raw Water Source Groundwater

Disinfection Method Sodium Hypochlorite

Municipal Location Municipal office, 2 Victoria Street, Berwick

Service Area Village of Finch

Service Population 441

Operational Description:

Raw Water Source: Two drilled wells located at 20 William Street in the Village of Finch.

Low Lift Pumps: Two submersible well pumps, one duty and one standby, direct the water from the wells to a 9.5 L/second force draft aeration tower, where H2S is removed from the raw water. Water from the aeration tower is chemically injected with Sodium Hypochlorite for disinfection, prior to entry to the 20 cubic meter clear well.

High Lift Pumps: Two high lift pumps, one duty and one standby, move the chlorinated water from the clear well to the pressure filters.

Elevated Tank: The plant treated water, after filtration, is directed to the distribution grid and elevated storage tank with a capacity of 580 cubic meters.

<u>Filters</u>: Two 4 Litre/second dual media pressure filters, remove particles from the chlorinated water. Filter backwash treatment system consists of a 15 cubic meter surge tank, with a 1.4 cubic meter settling tank and an 18 cubic meter sludge holding tank.

<u>Distribution System</u>: There are approximately 441 persons supplied with water from the Finch Water Treatment Plant.

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

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 Finch 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.

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.

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

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?

With respect to Operational Parameters, between October 23 and November 1, 2002, the pressure filters that service the Finch water treatment plant were being removed and replaced with new ones. As a result, turbidity exceded 1.0 NTU for this time frame. The Ministry of Environment and the Ministry of Health were immediately notified as per Regulation 459.

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

Definitions & Terms

 m^3 - Cubic Meter, 1 m^3 = 1000 litres

TCU - True Colour Units

CaCO₃ - 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.

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

Finch Water Quality Test Results

Miceoniological Parameters	ori	Fot Samples	# of Detectable Results	Lisempling Last Daires	Runga (Exceelents?	Typical Surre of Containment
Total Coliform,Raw (CFU/100mL)	n/a	13	0	10/07 - 12/30 weekly	n/a	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	8	10/07 - 12/30 weekly	3-98	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	2	10/07 - 12/30 weekly	2-60	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	1	10/07 - 12/30 weekly	4	no	Indicator of adverse water quality

Parameters related to Microbiological Quality	MAC or DMAC	4 of Samples	Detektable.	Sampling Lates (m/d)	Range y	Exceedence.	Typical Source of Contaminant
Turbidity (NTU)	1	Continuous	Continuous	10/01-12/31	0.11-2.43	yes	Turbidity is a measure of particles in water
Free Chlorine – Plant Effluent (mg/l)	-	Continuous	Continuous	10/01-12/31	1.0-2.35	no	Chlorine added for Disinfection
Free Chlorine- Distribution (mg/l min 0.05 & max. 4.0)	-	Grab Sample weekly	weekly	10/07-12/30	0.70-1.99	no	Objective is 0.20 mg/l in the Distribution System (min. 0.05 mg/l required)

<u>Comments</u>: 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 (ing/l)	MAC of IMAC	# of Samples	A of Delectable Results		Range	Exceedence	Typical Source of Contaminant
Lead - Distribution (ug/l)	0.01	1	1	01/21/02	0.001	no	Leached from lead solder or brass plumbing fixtures
Nitrate	10	1	1	10/15/02	<0.10	no	Natural component of water
Nitrite	1	1	1	10/15/02	<0.10	no	
Arsenic	IMAC= 0.025	1	1	09/18/00	<0.001	no	
Barium	1	1	1	09/18/00	0.43	no	
Boron	IMAC= 5.0	1	1	09/18/00	0.17	no	
Cadmium	0.005	1	1	09/18/00	<0.0001	no	
Chromium (Total)	0.05	1	1	09/18/00	<0.01	no	
Copper	1	1	1	09/18/00	0.013	no	
Iron	0.3	1	1	09/18/00	<0.01	no	
Lead	0.01	1	1	09/18/00	<0.001	no	
Manganese	0.05	ı	1	09/18/00	<0.01	no	
Mercury	0.001	1	1	09/18/00	<0.0001	no	
Selenium	0.01	ı	1	09/18/00	<0.001	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

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

Inorganic Parameters- (cont d)(mg/t):	Ma Cos IMAG	A of Samples	Fol s Detectable Results as	Samping Dates is s (m/d/s) s	Rimge	Exceedence	Typical Source, of Cofficultinate
Uranium	0.1	1	1	09/18/00	<0.001	no	
Sodium (System)	200	2	2	01/21/02- 02/13/02	82-77	no	
Fluoride	2.4	1	1	01/21/02	0.47	no	

Volatile Organics (ug/l)	MAC or IMAC	# of Samples v	Dejectable	Sampling Claim (m/d/y)	Range	Exceedence	Typical Source of Contaminant
Trihalomethanes - Plant	100	1	1	10/15/02	75.4	no	
Trihalomethanes - Dist.	100	1	1	10/15/02	91.7	no	
Benzene	5	1	1	10/15/02	<0.5	no	
Carbon Tetrachloride	5	1	1	10/15/02	<0.9	no	
Dichloromethane	50	ı	1	10/15/02	<4.0	no	
1,2 - Dichlorobenzene	200	1	1	10/15/02	<0.4	no	
1, 4 - Dichlorobenzene	5	1	1	10/15/02	<0.4	no	
1,2 - Dichloroethane	IMAC≖ 5	1	1	10/15/02	<0.7	no	
1,1 - Dichloroethylene	14	1	ı	10/15/02	<0.5	no	
Ethylbenzene	24	1	1	10/15/02	<0.5	no	
Monochlorobenzene	80	1	1	10/15/02	<0.2	no	
Tetrachloroethylene	30	1	1	10/15/02	<0.3	no	
Toluene	24	i	1	10/15/02	<0.5	no	
Trichloroethlyene	50	1	ı	10/15/02	<0.3	no	
Vinyl chloride	2	1	1	10/15/02	<0.5	no	
Xylene	300	1	ı	10/15/02	<2	no	
Bromodichloromethane	n/a	1	1	10/15/02	23.8	no	
Bromoform	n/a	I	ı	10/15/02	4.1	no	
Chloroform	n/a	1	1	10/15/02	23.3	no	
Dibromochloromethane	n/a	1	1	10/15/02	24.2	no	

Pesticides & PCB	MAC or	# of c	A G Detectables	Samplinger Dates	Range	Exceedence	Typical Source of
(0g/Li)	THANK	Samples	Letegrabies Results	(m/d/y)		100	Contaminant.
Alachlor	IMAC=5	l	i	10/15/02	<0.5	no	
Aldicarb	9	1	1	10/15/02	<5.0	no	
Aldrin+Dieldrin	0.7	1	1	10/15/02	<0.012	no	
Atrazine	IMAC=5	i	1	10/15/02	<0.5	no	
Azinphos-methyl	20	1	1	10/15/02	<2.0	no	
Bendiocarb	40	1	1	10/15/02	<2.0	no	
Bromoxynil	IMAC=5	1	1	10/15/02	<0.5	no	· · · · · · · · · · · · · · · · · · ·
Carbaryl	90	1	1	10/15/02	<5.0	no	
Carbofuran	90	1	1	10/15/02	<5.0	no	
Chlordane	7	1	1	10/15/02	<0.012	no	
Chorpyrifus	90	1	1	10/15/02	<1.0	no	
Cyanazine	IMAC=10	i	11	10/15/02	<1.0	no	
Diaznon	20	1	1	10/15/02	<1.0	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

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

Pesticities & PCB	MAC op	- Act	Foi Detectables	Sampling Dates	Range	Exceedence	Typical Source of Contaminant
(cont'd) (ug/L).	TMACAS	Samples	Kesilia 2	c = (m/d/y)			Contempant
Dicamba	120	1	1	10/15/02	<1.0	no	
2,4 Dichlorophenol	900	1	1	10/15/02	<0.5	no	
DDT + Metabolites	30	1	1	10/15/02	<0.024	no	
2,4 - Dichlorophenexy acid (2,4 -D)	IMAC=100	1	I	10/15/02	<1.0	no	
Diclofop-methyl	9	1	1	10/15/02	<0.9	no	
Dimethoate	IMAC=20	1	1	10/15/02	<2.5	no	
Dinoseb	10	1	1	10/15/02	<1.0	no	
Diquat	70	1	1	10/15/02	<7.0	no	
Diuron	150	1	1	10/15/02	<10.0	no	
Glyphosate	IMAC=280	1	i	10/15/02	<10.0	no	
Heprachlor + Heptachlor	3	1	1	10/15/02	<0.012	no	
Lindane	4	ī	1	10/15/02	< 0.006	no	
Malathion	190	1	1	10/15/02	<5.0	no	1 7000000
Methoxychlor	900	1	ı	10/15/02	<0.024	no	
Metolachlor	IMAC=50	1	1	10/15/02	<0.5	no	
Metribuzin	80	1	1	10/15/02	<5.0	no	
Paraquat	IMAC=10	1	1	10/15/02	<1.0	no	
Parathion	50	1	1	10/15/02	<1.0	no	
Pentachlorophenol	60	1	1	10/15/02	<0.5	no	
Phorate	IMAC=2	1	1	10/15/02	<0.5	no	
Picloram	IMAC=190	1	1	10/15/02	<5.0	no	
Polychlorinated Biphenyls	IMAC=3	1	1	10/15/02	<0.05	no	
Prometryne	IMAC=1	1	i	10/15/02	<0.25	no	
Simazine	IMAC=10	1	1	10/15/02	<1.0	no	
Temephos	IMAC=280	1	1	10/15/02	<10	no	
Terbufos	IMAC=1	1	1	10/15/02	<0.7	no	
2,3,4,6 Tetrachlorophenol	100	1	i i	10/15/02	<0.5	no	
Triallate	230	1	1	10/15/02	<1.0	no	
2,4,6-Trichlorophenol	5	1	1	10/15/02	<0.5	no	
2,4,5 - trichlorophenoxy acedic acid	IMAC=280	1	1	10/15/02	<1.0	no	
Trifluralin	45	1	1	10/15/02	<1.0	no	

Additional Parameters Non-Health Related (mg/l)	AO gr 096	August Saupter	Defectable Results	Sapping Dates (n/d/y)	Range	Exceedence?	Typical Source of Contaminant
Calcium		l	1	01/21/02	66	no	
Magnesium		1	1	01/21/02	29	no	
Potassium		1	1	01/21/02	6	no	

QUARTERLY REPORT ON DRINKING WATER QUALITY

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

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 Finch 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.

OCTOBER, NOVEMBER, DECEMBER 2002

annual annual

Chemical Parameters

Т	ab	le	В	&	D	1
 1	VO	28	31	Ю	3	

Treated	V,
Treated	√

Date]	Date	
Samples		Results	
Collected	Initials	Received	Initials

System THM
Flouride
Sodium
B.O.D.
S.S
T.Phos
ph
E.Coli
T.Coli

Treated	V
Treated	V,
Treated	V
Backwash	V
Backwash] 🗸
Backwash	~
Backwash	1
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Bacti Parameters

Raw Well#1or2	E.Coli	Total Coli.	Background
Treated	E.Coli	Total Coli.	HPC
System 2 Sites	E.Coli	Total Coli.	HPC 25%

Bacti's	V ,
Bacti's	J.
Bacti's	
Bacti's	
	Bacti's Bacti's

i	Nov.3	Bacti's	of one of Number
	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) Table C Treated Water (Jan. 2003) Sodium Treated Water (Jan. 2007)

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Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

ndustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220010887

Project:

Finch WTP

Date Sampled:

October 7, 2002

Date Received:

October 8, 2002

Date Printed:

October 10, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification	N		
			Well Raw	WTP Treated	MacEwen's Gas Bar	62 Main St.
Total Chlorine	mg/L	0.05		2.00	1.60	0.80
Free Chlorine	mg/L	0.05		1.80	1.40	0.70
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

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

ndustrial Dr. Chesterville, ON **K0C 1H0**

Attention: Dave Markell **Certificate of Analysis**

Report:

220011202

Project:

Finch WTP

Date Sampled:

October 15, 2002

Date Received: Date Printed:

October 16, 2002

October 18, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identificatio	n		
				Well - Raw	WTP Treated	Dist. Senior's Residence	Dist. SPS #1
7	Total Chlorine	mg/L	0.05		2.00	1.60	1.10
1	Free Chlorine	mg/L	0.05		1.90	1.40	0.90
1	ł. coli	/100mL	1	absent	absent	absent	absent
1	Heterotrophic Plate Count	/mL	2		absent	absent	
1	Background bacteria	/100mL	1	absent			
7	Fotal Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

ndustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220011480

Project:

Finch WTP

Date Sampled:

IIICII VV II

Date Received:

October 21, 2002 October 22, 2002

Date Printed:

October 22, 2002 October 24, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification	n		
				Well - Raw	WTP Treated	Dist. St. Bernards School	Dist. MAQ Sonar
	Total Chlorine	mg/L	0.05		2.20	1.50	1.40
:	Free Chlorine	mg/L	0.05		2.00	1.30	1.20
	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

Division of Caduceon Enterprises inc.

Client:

⊘ntario Clean Water Agency

ndustrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220011846

Project:

Finch WTP

Date Sampled:

October 28, 2002

Date Received: Date Printed:

October 29, 2002 October 31, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification	n		
				Well - Raw	WTP Treated	Dist. Smith Cartage	Dist. Senior's Res
	Total Chlorine	mg/L	0.05		2.70	2.10	2.00
	Free Chlorine	mg/L	0.05		2.40	1.90	1.80
P	E. coli	/100mL	1	absent	absent	absent	absent
	Heterotrophic Plate Count	/mL	2		absent	absent	
ı	Background bacteria	/100mL	1	absent			
	Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

Client:

Ontario Clean Water Agency

ndustrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220012030

Project:

Finch WTP

Date Sampled:

October 30, 2002

Date Received:

October 31, 2002

Date Printed:

November 04, 2002

Matrix:

Parameter Unit M			MDL	Sample Identification		
				Finch Filter A Contents	Finch Filter B Contents	
	Total Chlorine	mg/L	0.05	2.50	2.50	
	Free Chlorine	mg/L	0.05	2.20	2.20	
	E. coli	/100mL	1	absent	absent	
	Heterotrophic Plate Count	/mL	2	absent	absent	
	Background bacteria	/100mL	1	absent	absent	
	Total Coliforms	/100mL	1	absent	absent	

REPORT OF ANALYSIS

lient: FINCH WELL SUPPLY

Report Number:

Date Submitted:

2214337

Date:

2002-10-21 2002-10-16

ATT: Mr. Blair Henderson

Project:

Finch Quarterly Chemicals

P.O. Number:

				Matrix:		Supply Water	
		LAB ID:					
1			2002-10-15				
	Sa	mple ID:	FW-01				
1				(Į.		
						<u> </u>	<u></u>
PARAMETER	UNITS	MDL					
BTEX / 624 / PURGEABLE H							
Benzene	ug/L	0.5	<0.5 √	1	}		
Toluene	ug/L	0.5	<0.5		1	l	
Ethylbenzene	ug/L	0.5	<0.5 🗸	}	1	}	}
m/p-xylene	ug/L	1.0	<1.0		1	1	ł
o-xylene	ug/L	0.5	<0.5	1			1
Bromodichloromethane	J ug/L	0.3	23.8	ļ		ł	
Bromoform	ug/L	0.4	4.1 4/		ì	j	
Carbon Tetrachloride	ug/L	0.9	<0.9 √	l	}	<u> </u>	,
Monochlorobenzene	ug/L	0.2	<0.2 <	}		1	ĺ
Chloroform	ug/L	0.5	23.3 √	1	4	1	ļ
bromochloromethane	ug/L	0.3	24.2 🗸	i	1	1	
2-dichlorobenzene	ug/L	0.4	<0.4 🗸	j		ľ	
1,4-dichlorobenzene	ug/L	0.4	<0.4				
1,2-dichloroethane	ug/L	0.7	<0.7 🗸	į)	Ì]
1,1-dichloroethylene	ug/L	0.5	<0.5 √			i	
Dichloromethane	ug/L	4.0	<4.0 √	Ì	1		ļ
Tetrachioroethylene	ug/L	0.3	<0.3 √,	ĺ	ļ	(
Trichloroethylene	ug/L	0.3	<0.3 √	1			1
Vinyl Chloride	ug/L	0.5	<0.5	\			\
TOTALS			,	i]	[ĺ
Trihalomethanes (total)	ug/L	2.0	75.4	}	1	}	
Xylene; total	ug/L	2.0	<2.0 /		1]	1
BTEX / 624 Surrogate Reco	veries			1	}	1	
Toluene-d8	%		97	1		l	(
1,2-dichloroethane-d4	%		99]			}
4-bromofluorobenzene	%		100	1			[}
<u> </u>					L	<u>.</u>	}

MDL = Method Detection Limit

INC = incomplete

Comment:

APPROVAL

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

608 Norris Court, Kingston, ON, K7P 2R9

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

ATT: Mr. Blair Henderson

Report Number:

2214337

Date:

2002-10-22

Date Submitted:

2002-10-16

Pro

Project:

Finch Quarterly Chemicals

P.O. Number:

				Matrix:		Supply Water	
		LAB ID:	210870				
1	Sampl	le Date:	2002-10-15				
i	San	nple ID:	FW-01				
						1	
PARAMETER	UNITS	MDL.	TREATEDWATER				
N-NO2	mg/L	0.10	<0.10				
N-NO3	mg/L	0.10	<0.10 ·/			ļ	1
		ſ	•			Ì	1
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MDL = Method Detection Limit

INC = Incomplete

Comment:

APPROVAL

608 Norris Court, Kingston, ON, K7P 2R9

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2214337

Date:

2002-10-31 2002-10-16

ATT: Mr. Blair Henderson

Date Submitted:

Finch Quarterly

Chemicals

Project:

Supply Water

		Sample	; manıx
	10.1	 1	

LAB ID:							
<u>{</u>		ple Date:					
	Sa	ample ID:	FW-01				
			1				
	<u> </u>					L	
PARAMETER	UNITS	MDL					
PESTICIDES & PCB's							
Alachlor	ug/L	0.5	`\<0.5`	İ			
Aldicarb	ug/L	5	[→] <5 ~				ļ
Aldrin	ug/L	0.006	<0.006			}]
Aldrin + Dieldrin	ug/L	0.012	¬ <0.0 1%			}	ļ
Atrazine	ug/L	0.5	~ <0.5				1
Desethyl-atrazine	ug/L	0.5	<0.5				
Atrazine+Desethyl-atrazine	ug/L	1	<1				1
Azinphos-methyl	ug/L	2	> <2				
Bendiocarb	ug/L	2	∀<2				
moxynii	ug/L	0.5	→ < 0.5)
arbaryl	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	>, <1				
Cyanazine	ug/L	1	√ <1				
Diazinon	ug/L	1 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			1	
	<i>3</i>						
							L

NOTE: mg/L (ppm)=1000xug/L (ppb)

MDL = Method Detection Limit

Comment:

APPROVAL:

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2214337

Date:

2002-10-31 2002-10-16

ATT: Mr. Blair Henderson

Date Submitted:

Finch Quarterly Chemicals

Project:

Supply Water

Sample Matrix:

		LAB ID:		Sample Matri	<u>X:</u>	Supply Water	•
	210870						
Sample Date:			2002-10-15				
	Sample ID:		FW-01				
		-					
PARAMETER	UNITS	MDL				†	
p,p'-DDD	ug/L	0.006	<0.006				
Diclofop-methyl	ug/L	0.9	∀< 0.9			i	
Dimethoate	ug/L	2.5	><2.5			1	
Dinoseb	ug/L	1	` <1			ı	
Diuron	ug/L	10	√<10	:	1	1	
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			}	1
Lindane	ug/L	0.006	~<0.006				
lathion	ug/L	5	→ <5				İ
methoxychlor	ug/L	0.024	~<0.024				
Metolachlor	ug/L	0.5	~ <0.5			Ì	
Metribuzin	ug/L	5	~ ₄ <5				
Paraquat	ug/L	1	√ <1			1	
Parathion	ug/L	1	√ <1				
Pentachlorophenol	ug/L	0.5	√ <0.5				
Phorate	ug/L	0.5	~ <0.5			ļ	ļ
Picloram	ug/L	5	√ <5				İ
PCB's (total)	ug/L	0.05	√< 0.05			ļ	
Prometryne	ug/L	0.25	~ <0.25				
Simazine	ug/L	1	√ <1				
Temephos	ug/L	10	→ <10	ļ			f
Terbufos	ug/L	0.7	√ < 0.7				
2,3,4,6-Tetrachlorophenol	ug/L	0.5	~ <0.5				
Triallate	ug/L	1	⊸ <1		I		
2,4,6-Trichlorophenol	ug/L	0.5	√ <0.5		ĺ		
Trifluralin	ug/L	1	∨ <1	}			
2,4,5-T	ug/L	1	v <1				
MOTE // \ 1000							

NOTE: mg/L (ppm)=1000xug/L (ppb)

MDL = Method Detection Limit

Comment:

ADDDOVAL.	A second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second
APPROVAL:	√ W

REPORT OF ANALYSIS

Client: FINCH WELL SUPPLY

Report Number:

2214338

Date:

2002-10-21

Date Submitted:

2002-10-16

ATT: Mr. Blair Henderson

Project:

Finch Quarterly Chemicals

P.O. Number:

Matrix: Supply Water

				watrix.		Supply water	
	LAB ID:	210871					
Sample Date:			2002-10-15				
			FW-100 FW-				
	· }				1		}
			System				
PARAMETER	UNITS	MDL				<u> </u>	
BTEX / 624 / PURGEABLE HYD	ROCARBO	ONS					
Bromodichloromethane	ug/L	0.3	√27.5				
Bromoform	ug/L	0.4	√ 4.6				
Chloroform	ug/L	0.5	√ 30.9				
Dibromochloromethane	ug/L	0.3	√ 28.7	'			}
TOTALS							
Trihalomethanes (total)	ug/L	2.0	∖ 91.7				[
BTEX / 624 Surrogate Recover		}					}
Toluene-d8	%		97				
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	-	1					

MDL = Method Detection Limit

Comment:

INC = Incomplete

APPROVAL:

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

608 Norris Court, Kingston, ON, K7P 2R9

Division of Caduceon Enterprises inc.

Client:

tarìo Clean Water Agency

industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220012189

Project:

Finch WTP

Date Sampled:

November 4, 2002

Date Received: Date Printed:

November 5, 2002 November 07, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	WTP Treated - 20 Wiliam St., Finch	Dist. MAQ Sonar	Smith Cartage	
Total Chlorine	mg/L	0.05		2.19	1. 6	1.54	
Free Chlorine	mg/L	0.05		1.84	1.34	1.41	
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	
Heterotrophic Plate Count Background bacteria	/mL /100mL	2	4	absent	absent		

Division of Caduceon Enterprises Inc.

Certificate of Analysis

(Client:

ntario Clean Water Agency

o Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Report:

220012679

Project:

Finch WTP

Date Sampled:

November 12, 2002

Date Received: Date Printed: November 13, 2002 November 15, 2002

Matrix:

	Parameter	Unit	MDL	Sample Identification						
				Well - Raw	WTP Treated	Dist. SPS	Dist. Barb's Diner			
	Total Chlorine	mg/L	0.05		1.61	1.01	1.63			
	Free Chlorine	mg/L	0.05		1.46	0.84	1.42			
	E. coli	/100mL	1	absent	absent	absent	absent			
	Heterotrophic Plate Count	/mL	2		60	absent				
1	Background bacteria	/100mL	1	98						
	Total Coliforms	/100mL	1	absent	absent	absent	absent			

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

Industrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220012906

Project:

Finch WTP

Date Sampled:

November 18, 2002

Date Received:

November 19, 2002

Date Printed:

November 19, 2002 November 21, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	Well - Treated	Dist. Finch Arena	Dist. McEwen Fuel	
Total Chlorine	mg/L	0.05		2.40	1.70	1.40	
Free Chlorine	mg/L	0.05		2.10	1.40	1.20	
E. coli	/100mL	1	absent	absent	absent	absent	
Heterotrophic Plate Count	/mL	2		absent	4		
Background bacteria	/100mL	1	75				
Total Coliforms	/100mL	1	absent	absent	absent	absent	

Division of Caduceon Enterprises Inc.

Client:

entario Clean Water Agency

ndustrial Dr. Chesterville, ON

K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220013265

Project:

Finch WTP

Date Sampled:

November 25, 2002

Date Received: Date Printed:

November 26, 2002 November 28, 2002

Matrix:

Parameter	Unit	Unit MDL Sample Identification						
			Well - Raw	WTP Treated	Dist. St. Bernard's School	Dist. SPS #1		
Total Chlorine	mg/L	0.05		2.40	1.70	1.00		
Free Chlorine	mg/L	0.05		2.10	1.40	0.80		
E. coli	/100mL	1	absent	absent	absent	absent		
Heterotrophic Plate Count	/mL	2		absent	absent			
Background bacteria	/100mL	1	49					
Total Coliforms	/100mL	1	absent	abs ent	absent	absent		

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency

dustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220013597

Project:

Finch WTP

Date Sampled:

December 2, 2002

Date Received:

December 3, 2002

Date Printed:

December 05, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification					
			Well - Raw	WTP Treated	Dist. Arena	Dist. Barb's Diner		
Total Chlorine	mg/L	0.05		2.30	2.18	1.79		
Free Chlorine	mg/L	0.05		1.97	1.99	1.51		
E. coli	/100mL	1	absent	absent	absent	absent		
Heterotrophic Plate Count	/mL	2		2	absent			
Background bacteria	/100mL	1	10					
Total Coliforms	/100mL	1	absent	absent	absent	absent		

Division of Caduceon Enterprises Inc.

Client:

ario Clean Water Agency

ndustrial Dr. Chesterville, ON

KOC 1H0

Attention:

Dave Markeli

Certificate of Analysis

Report:

220013983

Project:

Finch WTP

Date Sampled:

December 9, 2002

Date Received:

December 10, 2002

Date Printed:

December 12, 2002

Matrix:

Attornion: Days Markett						9
Parameter	Unit	MDL.	Sample Identification	1		
			Well - Raw	WTP Treated	Dist. Mad Sonar	Dist. St. Bernard School
Total Chlorine	mg/L	0.05		2.35	2.11	2.19
Free Chlorine	mg/L	0.05		1.99	1.83	1.96
E. coli	/100mL	1	absent	absent	absent	absent
Heterotrophic Plate Count	/mL	2		absent	absent	
Background bacteria	/100mL	1	27			
Total Coliforms	/100mL	1	absent	absent	absent	absent

Division of Caduceon Enterprises Inc.

htario Clean Water Agency

5 Industrial Dr. Chesterville, ON **K0C 1H0**

Attention:

Dave Markell

Certificate of Analysis

Report:

220014328

Project:

Finch WTP

Date Sampled:

December 16, 2002

Date Received:

Date Printed:

December 17, 2002

December 19, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	WTP Treated	Dist. Community Centre	Dist. Bank of Montreal	
Total Chlorine	mg/L	0.05		2.02	1.74	1.44	
Free Chlorine	mg/L	0.05		1.67	1.55	1.36	
E. coli	/100mL	1	absent	absent	absent	absent	
Heterotrophic Plate Count	/mL	2		absent	absent		
Background bacteria	/100mL	1	3				
Total Coliforms	/100mL	1	absent	absent	absent	absent	

Division of Caduceon Enterprises Inc.

Client:

ntario Clean Water Agency

ndustrial Dr. Chesterville, ON K0C 1H0

Attention:

Dave Markell

Certificate of Analysis

Report:

220014626

Project:

Finch WTP

Date Sampled:

December 23, 2002

Date Received: Date Printed: December 23, 2002 December 27, 2002

Matrix:

Parameter	Unit	MDL	Sample Identification					
			Well - Raw	WTP Treated	Dist. Maq Sonar	Dist. Finch Diner		
Total Chlorine	mg/L	0.05		1.77	1.54	1.66		
Free Chlorine	mg/L	0.05		1.57	1.32	1.39		
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		

Division of Caduceon Enterprises Inc.

Client:

tario Clean Water Agency

hdustrial Dr. Chesterville, ON

K0C 1H0

Attention: Dave Markell

Certificate of Analysis

Report:

220014784

Project:

Finch WTP

Date Sampled:

December 30, 2002

Date Received:

December 30, 2002

Date Printed:

January 02, 2003

Matrix:

Parameter	Unit	MDL	Sample Identification				
			Well - Raw	WTP - Treated	Dist. Sewage pumping Station	Dist. Arena	
Total Chlorine	mg/L	0.05		1.77	1.17	1.39	
Free Chlorine	mg/L	0.05		1.55	0.96	1.08	
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	