

C.O.C.: G37010

REPORT No. B13-22723

Report To:

City of Iqaluit

PO Box 460,
Iqaluit NU X0A 0H0

Attention: Paul Clow

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 29-Aug-13

JOB/PROJECT NO.: Test B

DATE REPORTED: 16-Sep-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	WTP Test B			
			Sample I.D.	B13-22723-1			
			Date Collected	27-Aug-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
pH @25°C	pH Units		SM 4500H	30-Aug-13/O	7.44		
Conductivity @25°C	µmho/cm	1	SM 2510B	30-Aug-13/O	488		
Total Suspended Solids	mg/L	3	SM 2540D	30-Aug-13/O	156		
Nitrite (N)	mg/L	0.1	SM4110C	29-Aug-13/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	29-Aug-13/O	0.1		
Calcium	mg/L	0.02	SM 3120	30-Aug-13/O	30.9		
Magnesium	mg/L	0.01	SM 3120	30-Aug-13/O	4.60		
Sodium	mg/L	0.2	SM 3120	30-Aug-13/O	20.7		
Potassium	mg/L	0.1	SM 3120	30-Aug-13/O	8.7		
Aluminum (total)	mg/L	0.01	SM 3120	30-Aug-13/O	0.68		
Antimony	mg/L	0.0001	EPA 200.8	30-Aug-13/O	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	30-Aug-13/O	< 0.0001		
Barium	mg/L	0.001	SM 3120	30-Aug-13/O	0.042		
Beryllium	mg/L	0.002	SM 3120	30-Aug-13/O	< 0.002		
Bismuth	mg/L	0.02	SM 3120	30-Aug-13/O	< 0.02		
Boron	mg/L	0.005	SM 3120	30-Aug-13/O	0.035		
Cadmium	mg/L	0.005	SM 3120	30-Aug-13/O	< 0.005		
Chromium	mg/L	0.002	SM 3120	30-Aug-13/O	0.003		
Cobalt	mg/L	0.005	SM 3120	30-Aug-13/O	< 0.005		
Copper	mg/L	0.002	SM 3120	30-Aug-13/O	0.393		
Iron (Total)	mg/L	0.005	SM 3120	30-Aug-13/O	1.37		
Lead	mg/L	0.02	SM 3120	30-Aug-13/O	< 0.02		
Lithium	mg/L	0.005	SM 3120	30-Aug-13/O	< 0.005		
Manganese (Total)	mg/L	0.001	SM 3120	30-Aug-13/O	0.280		
Molybdenum	mg/L	0.01	SM 3120	30-Aug-13/O	< 0.01		
Nickel	mg/L	0.01	SM 3120	30-Aug-13/O	0.01		
Silicon	mg/L	0.01	SM 3120	30-Aug-13/O	1.77		
Silver	mg/L	0.005	SM 3120	30-Aug-13/O	< 0.005		



M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	WTP Test B			
			Sample I.D.	B13-22723-1			
			Date Collected	27-Aug-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Strontium	mg/L	0.001	SM 3120	30-Aug-13/O	0.088		
Tin	mg/L	0.05	SM 3120	30-Aug-13/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	30-Aug-13/O	0.010		
Uranium	mg/L	0.00005	EPA 200.8	30-Aug-13/O	0.00020		
Vanadium	mg/L	0.005	SM 3120	30-Aug-13/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	30-Aug-13/O	0.245		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	04-Sep-13/O	34.8		
o-Phosphate (P)	mg/L	0.01	MOEE 3366	04-Sep-13/O	3.89		
Phosphorus-Total	mg/L	0.01	MOEE 3367	11-Sep-13/O	11.9		
BOD	mg/L	3	SM 5210B	30-Aug-13/O	169		
Total Coliform	cfu/100mL	1	MOE E3371	30-Aug-13/O	24000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	29-Aug-13/O	1700000		

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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September 16, 2013

Greg Clarkin
Caduceon Environmental Laboratories
2378 Holly Lane
Ottawa, ON K1V 7P1

Dear Greg:

On August 30, 2013, Pollutech EnviroQuatics Limited personnel received a water sample from Caduceon Environmental Laboratories (Test B B13-22723), Ottawa Site. The following acute toxicity tests were performed on this sample observing Environment Canada methods:

- Rainbow trout 96-hour single-concentration toxicity test according to the criteria outlined in the "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout", Second Edition, Method Development and Applications Centre, Ottawa, ON., Report EPS 1/RM/13, 2000 (with 2007 amendments).
- *Daphnia magna* 48-hour LC50 toxicity test according to the criteria outlined in the "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna*", Environmental Technology Center, Ottawa, Ontario, Report EPS 1/RM/14 Second Edition, December 2000.

The results of the acute toxicity tests are summarized in Table 1.

Table 1 Summary of Acute Toxicity Results for Test B B13-22723 Water Sample Collected August 23, 2013

Sample Name Sample #	Toxicity Test	Endpoint	Effect	Result ¹
Test B B13-22723 #79911303	<i>Daphnia magna</i>	48-hour LC50 (95% Confidence)	Mortality	Non-lethal ² (Not available)
	Rainbow Trout	96-hour Single- Concentration	Mortality	100% Mortality ^{2,3}

¹ – Results relate only to the sample tested

² – Test invalid – hold time was greater than five days. Tested as instructed.

³ – Most regulations regard ≤50% mortality to be a "pass". Check your applicable regulatory requirements.

Greg Clarkin
Caduceon Environmental Laboratories
September 16, 2013
Page 2

Toxicity Test Endpoint Descriptions

LC50 The estimated concentration which causes acute lethality to 50% of the test organisms.

The following pages contain the required details for reporting of the acute lethality toxicity tests. If there are any further details which you require, please do not hesitate to contact us.

Sincerely,
Pollutech EnviroQuatics Limited



R. Clay Ferguson, B.Sc. (Hon.)
Laboratory Manager

File ID:\bioassay\2013\7000\7991\7991au1 T, D LC50

Rainbow Trout 96-Hour Single-Concentration Toxicity Test

METHOD: Environment Canada, "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout", Second Edition, Method Development and Applications Section, Ottawa, ON., Report EPS 1/RM/13, 2000 (with 2007 amendments). Pollutech Test Method RT-SC-R1.2.

Test Material

Client Name/Location: Caduceon Environmental Laboratories, Ottawa, ON

Sample #: 79911303 **Sample Name:** Test "B" B13-22723

Sample Method: Grab **Collected by:** n/a

Date/Time Collected: Aug. 23/13, 08:15 **Arrival Temp.:** 25.2°C

Date/Time Received: Aug. 30/13, 14:30 **Sample Description:** Cloudy brown

Sample Point Description: Other **Sample Type:** Effluent

Transportation: Road

Storage: Overnight at 15 ± 12 °C In dark, no headspace
n/a – not available

Test Organisms

Species: Rainbow Trout (*Oncorhynchus mykiss*)

Source: Rainbow Springs Hatchery

Culture Temp.: 15 ± 2°C **Batch Number:** RS072413

Water Source: Dechlorinated Municipal Drinking Water

Mean Weight: 0.71 g **Min:** 0.46 g **Max:** 1.09 g

Mean Fork Length: 42.2 mm **Min:** 37 mm **Max:** 48 mm

Loading Density: 0.36 g/L **Sample Size:** 10 fish

Life Stage: Fry

Number Dead Daily In Previous 7 Days For Fish Culture: 0+0+2+1+0+4+4=11

Previous 7-Day Holding Mortalities For Fish Culture: 1.15%

Rainbow Trout 96-Hour Single-Concentration Toxicity Test - Continued

Sample Number: 79911303

Sample Name: Test "B" B13-22723

Test Conditions

Date/Time Started: Aug. 31, 2013, 13:00

Test Volume: 20 L/Vessel

Number of Fish Per Vessel: 10

of Vessels Per Conc.: 1

Test Temperature: $15 \pm 1^{\circ}\text{C}$

Pre-aeration: Yes

Duration of Pre-aeration: 120 minutes

Pre-aeration Rate: $6.5 \pm 0.26 \text{ ml/min}\cdot\text{L}^{-1}$

Aeration Rate During Test: $6.5 \pm 0.26 \text{ ml/min}\cdot\text{L}^{-1}$

Sample Adjustment: No

Sample pH Adjustment: No

Test Method Deviations: Yes, sample hold time greater than five days.

Test Facilities



CALA

Testing
Accreditation No. A1225

Testing Laboratory:

Pollutech EnviroQuatics Limited, 704 Mara St.,
Suite 122, Point Edward, Ontario, N7V 1X4

This laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA). The test included in this report is within the scope of this laboratory.

Test Performed By:

C. Ferguson/C. D'Andrea/M. Long

Initial Measurement of Variables in Unadjusted Sample

Cond: 408 μmhos

pH: 6.6

O₂: 0.2 mg/L

Temp: 15.3°C

Test Results

NUMBER OF MORTALITIES							
Conc'n	Rep.No.			Time (hours)			
	1	4	24	48	72	96	
100%	1	1	9	10	-	-	-
Control	1		0	0	0	0	0

Number of Control Fish Showing Atypical/Stressed Behaviour: 0

Rainbow Trout 96-Hour Single-Concentration Toxicity Test - Continued

Sample Number: 79911303

Sample Name: Test "B" B13-22723

Test Results

TOXICITY TEST VARIABLES

Conc'n	Rep. No.	Variables	Time (hours)				
			0	24	48	72	96
100%	1	Cond. (μmhos)	404				n/r
		O ₂ (mg/L)	4.3				7.6
		pH (units)	7.1				7.7
		Temp. ($^{\circ}\text{C}$)	15.4				16.1
Control	1	Cond. (μmhos)	184				n/r
		O ₂ (mg/L)	10.4				7.9
		pH (units)	7.8				7.5
		Temp. ($^{\circ}\text{C}$)	15.4				16.3

n/r = not required

Summary of Test Results

Mean Mortality Rate: 100%¹

Test Results Verified By: R. C. Ferguson

¹ - Most regulations regard $\leq 50\%$ mortality to be a "pass". Check your applicable regulatory requirements.

Reference Toxicant Results

Reference Chemical: Zinc **Date Test Initiated:** 08/20/13

Fish Lot #: RS072413

Method: Spearman-Kärber ($\alpha = 10\%$)

96-Hour LC50 (95% Confidence Limits): 0.58 mg/L (0.44 mg/L; 0.78 mg/L)

Historic Geometric Mean LC50: 0.35 mg/L (0.18 mg/L; 0.67 mg/L)
(Historic Warning Limits) (± 2 Standard Deviations)

Daphnia magna* 48-Hour Single**Daphnia magna* 48-Hour LC50 Toxicity Test**

METHOD: Environment Canada, "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna*", Method Development and Applications Section, Ottawa, ON., Report EPS 1/RM/14, Second Edition, December 2000. Pollutech Test Method DM-LC-R10.7.

Test Material

Client Name/Location: Caduceon Environmental Laboratories, Ottawa, ON

Sample #: 79911303 **Sample Name:** Test "B" B13-22723

Sample Method: Grab **Collected by:** n/a

Date/Time Collected: Aug. 23/13, 08:15 **Arrival Temp.:** 25.2°C

Date/Time Received: Aug. 30/13, 14:30 **Sample Description:** Cloudy brown

Sample Point Description: Other **Sample Type:** Effluent

Transportation: Road

Storage: 4 ± 2 °C In dark, no headspace
n/a not available

Test Organisms

Species: *Daphnia magna* **Source:** Pollutech Culture (MOE/EPA)

Culture Temp.: 20 ± 2°C **Age:** < 24-hours old

Water Source: Reconstituted dechlorinated tap water

Cultures Used in Testing: 63 SA

Days to First Brood: 8

Average # Number of Neonates/Brood: 39

Previous 7 Days Mortality in Culture: 0%

Test Facilities

Testing Laboratory:

Pollutech EnviroQuatics Limited, 704 Mara St.,
Suite 122, Point Edward, Ontario, N7V 1X4



This laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA). The test included in this report is within the scope of this laboratory.

Test Performed By: M. Long

Daphnia magna 48-Hour LC50 Toxicity Test - Continued

Sample Number: 79911303

Sample Name: Test "B" B13-22723

Test Conditions

Date/Time Started:	Sept. 01/13, 09:05	# of Neonates/Vessel:	3
Test Volume:	50 mL/Vessel	mL Solution/Neonate:	16.7 mL
Reps/Concentration:	4	Dilution Water:	DW13-72
Pre-aeration:	Yes	Pre-aeration Rate:	50 ± 2 ml/min·L ⁻¹
Pre-aeration Duration:	30 minutes	Test Temperature:	20 ± 2°C
Sample pH Adjustment:	No	Sample pH Adjustment Procedure:	N/A
Sample Hardness Adjustment:			No
Hardness Before and After Adjustment:			Not Applicable
Test Method Deviations:			Yes, sample hold time greater than five days.

Initial Measurement of Variables of Unadjusted, Undiluted Sample

pH: 7.0 **O₂:** 0.3 mg/L **Cond:** 450 µmhos **Temp:** 19.8°C

Test Results

TOXICITY TEST VARIABLES

Concentration (% Volume)	pH		Oxygen mg/L		Cond. µmhos	Hardness mg/L	Temperature C°	
	Initial	Final	Initial	Final	Initial	Initial	Initial	Final
Control	8.1	8.1	8.9	8.6	530	198	20.3	20.4
6.25	7.9	7.9	8.8	7.9	521	--	20.4	20.3
12.5	7.8	7.8	8.6	7.0	515	--	20.4	20.2
25	7.6	7.7	7.9	5.5	505	--	20.4	20.2
50	7.5	7.6	6.4	3.8	489	--	20.4	20.3
100	7.1	7.6	2.7	1.5	440	60	20.0	20.3

***Daphnia magna* 48-Hour LC50 Toxicity Test - Continued**

Sample Number: 79911303

Sample Name: Test "B" B13-22723

Test Results - continued

DAPHNIA OBSERVATIONS				
Concentration (% Volume)	Test Vessel	Number of Daphnia Immobile		Number of Daphnia Dead
		24 hr.	48 hr.	48 hr.
Control	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0
6.25	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0
12.5	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0
25	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0
50	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0
100	A	0	0	0
	B	0	0	0
	C	0	0	0
	D	0	0	0

***Daphnia magna* 48-Hour LC50 Toxicity Test - Continued**

Sample Number: 79911303

Sample Name: Test "B" B13-22723

Summary of Test Results

48-Hour LC50: Non-lethal
95% Confidence Limits: Not applicable
Analysis Method: No mortality
Results Verified By: R. C. Ferguson

Reference Toxicant Results

Reference Chemical: Phenol **Date Test Initiated:** 08/27/13
Method: Spearman-Kärber ($\alpha = 0\%$)
48-Hour LC50 (95% Confidence Limits): 17.68 mg/L (14.32 mg/L; 21.83 mg/L)
Historic Geometric Mean LC50: 17.44 mg/L (8.97 mg/L; 33.91 mg/L)
(Historic Warning Limits) (± 2 Standard Deviations)

TESTING REQUIREMENTS

- ☐ O.Reg 153/09 ☐ Surface Soil ☐ Yes ☐ No ☐ Provincial Water Quality Objectives ☐ Sewer Use By-Law:
- Table ☐ Sub Surface Soil (O.Reg 153/09) ☐ Record of Site Condition (O.Reg 153/09)
- ☐ MISA Guidelines ☐ O.Reg 558 Leachate Analysis ☐ Disposal Site: ☐ Landfill Monitoring ☐ Other:

REPORT NUMBER (Lab Use)

Indicate Laboratory Samples are submitted to:

☐ Kingston ☒ Ottawa ☐ Richmond Hill ☐ Windsor

Organization: City of Eggleston

Address and Invoicing Address (if different)

Contact: Paul Clow

Invoice
Tracey Oram
8.O.Box 460
Eggleston, NU X0A 0H0

Tel: 867-979-633*233

Quote No.: Quotes attached

Fax:

Project Name:

Email: p.clow@city.eggleston.nu.ca

P.O. No.: Additional Info:

ANALYSES REQUESTED (Print Test in Boxes)

Test A
See Attached quote
Test B
See Attached quote
Test E
See Attached quote
Test F
See Attached quote
V13. Pobox
See Attached quote

TURNAROUND SERVICE REQUESTED (see back page)

- ☐ Platinum 200% Surcharge**
☐ Gold 100% Surcharge
☐ Silver 50% Surcharge
☐ Bronze 25% Surcharge
☒ Standard 5-7 days
☐ Specific Date: _____

Suspected Highly Contaminated

Are any samples to be submitted intended for Human Consumption under any Drinking Water Regulations?

☐ Yes ☒ No (If yes, submit all drinking water samples on a drinking water Chain of Custody)

* Sample Matrix Legend: WW=Waste Water SW=Surface Water GW=Groundwater LS=Liquid Sludge SS=Solid Sludge S=Soil Sed=Sediment PC=Paint Chips F=Filter Oil=Oil

Lab No.	Sample Identification	Sample Matrix *	Date Collected (yy-mm-dd)	Time Collected	Indicate Test For Each Sample By Using A Check Mark In The Box Provided	Field pH	Field Temp	# Bottles Sample	Field Filtered (Y/N)
	Test A	WN	13/08/27	8:40AM	✓				
	Test B		13/08/27	8:15AM	✓				
	Test E		13/08/27	8:30AM	✓				
	Test F	SS	13/08/27	8:15AM	✓				

BI3-22716
BI3-22723
BI3-22724
BI3-22726

SAMPLE SUBMISSION INFORMATION

SHIPPING INFORMATION

REPORTING / INVOICING

SAMPLE RECEIVING INFORMATION (LABORATORY USE ONLY)

Print: <u>Paul Clow</u>	Submitted by:	Client's Courier <input type="checkbox"/>	Invoice <input type="checkbox"/>	Report by Fax <input type="checkbox"/>	Received By (print): <u>Rebecca</u> Signature: <u>lh</u>
Sign: <u>Paul Clow</u>		Caduceon's Courier <input type="checkbox"/>		Report by Email <input checked="" type="checkbox"/>	Date Received (yy-mm-dd): <u>13-08-29</u> Time Received: <u>14:00</u>
		Drop Off <input type="checkbox"/>	# of Pieces <u>3 (1 can 2 buckets)</u>	Invoice by Email <input type="checkbox"/>	Laboratory Prepared Bottles: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Caduceon (Pick-up) <input checked="" type="checkbox"/>		Invoice by Mail <input checked="" type="checkbox"/>	Sample Temperature °C: <u>12°C</u> Labeled by:
Date (yy-mm-dd)/Time: <u>13/08/27 8:40AM</u>	Date (yy-mm-dd)/Time:				Comments: <u>4 beet 4 TSS</u> <u>1 ILR</u> <u>4 PET 2 DOC</u> <u>5 m 3 ND 7/SS</u>

Laboratory Location/Shipping Addresses

Kingston Lab - 285 Dalton Ave., Kingston, ON K7K 6Z1 Tel: (613) 544-2001 Fax: (613) 544-2770 Email: contactkingston@caduceonlabs.com
Ottawa Lab - 2378 Holly Lane, Ottawa, ON K1V 7P1 Tel: (613) 526-0123 Fax: (613) 526-1244 Email: contactottawa@caduceonlabs.com
Richmond Hill Lab - #14-110 West Beaver Creek Rd., ON L4B 1J9 Tel: (905) 476-5442 Fax: (905) 562-1963 Email: contactrichmondhill@caduceonlabs.com
Windsor Lab - #5-1201 Mainville Ave., Windsor, ON N8X 4G3 Tel: (519) 356-2541 Fax: (519) 356-2567 Email: contactwindsor@caduceonlabs.com

Page _____ of _____
G 37010

QUOTATION FOR ANALYTICAL SERVICES

Quote # : Y13_TEST_B
Organization: City of Iqaluit
Contact: Sean Tiessen
Telephone: 867-979-5649
Facsimile:
Email: S.Tiessen@city.iqaluit.nu.ca
Project #: Test B WWTP Influent
Address: P.O. Box 460 Iqaluit, Nunavut X0A 0H0
Additional Info: **QUOTE # ('S) MUST BE ON C OF C TO APPLY** if not listed. General pricing will be applied.
Additional Info: 1 Event a year (Summer(A, B, E, F))
Date: January 10, 2013 **Valid Until:** December-31-13

Item #	Quantity	Analysis Request	Matrix	Unit Cost, \$	Amount, \$
1	1	BOD ✓	Influent	25.00	\$25.00
2	1	Ammonia, NO2, NO3 ✓	Influent	25.00	\$25.00
3	1	Orthophosphate ✓	Influent	15.00	\$15.00
4	1	pH ✓	Influent	8.00	\$8.00
5	1	TSS ✓	Influent	15.00	\$15.00
6	1	Total Phosphorus ✓	Influent	15.00	\$15.00
7	1	Conductivity ✓	Influent	8.00	\$8.00
8	1	Total ICP Metals (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Li, Na, Ni, Pb, Sb, Si, Sn, Sr, Ti, U, V, Zn)	Influent	50.00	\$50.00
9	1	LC50 Bioassay (R Trout) (sub-contracted)	Influent	595.00	\$595.00
10	1	Total and Fecal Coliforms	Influent	28.00	\$28.00
11	1	Pick up from Ottawa Airport	-	25.00	\$25.00
Subtotal					807.00
Env. Surch. \$1.50/Sample					1.50
HST					105.11
Total Cost					\$913.61

Prices do not include shipping unless otherwise stated.

Damien Gilbert
 Director of Business Development
 Caduceon Environmental Laboratories
dgilbert@caduceonlabs.com

Laboratory Locations

Kingston - 285 Dalton Ave. Kingston, ON K7K 6Z1 Tel: (613) 544-2001 Fax: (613) 544-2770
 Ottawa - 2378 Holly Lane Ottawa, ON K1V 7P1 Tel: (613) 526-0123 Fax: (613) 526-1244
 Richmond Hill - 110 West Beaver Creek Road (Unit 14), Richmond Hill, ON L4B 1J9 Tel: (289) 475-6442 Fax: (866) 562-1983
 Windsor - #5-3201 Marentette Ave. Windsor, ON N8X 4G3 Tel: (519) 969-9541 Fax: (519) 966-9567