

## **APPENDIX D**

### **Laboratory Chemical Analysis Reports**

## Certificate of Analysis

### INTERA Engineering Ltd.

Suite 200, 1 Raymond St.  
Ottawa, ON K1R 1A2  
Attn: Sean Sterling

Phone: (613) 232-2525  
Fax: (613) 232-7149

Client PO:

Report Date: 22-Sep-2009

Project: 09-205

Order Date: 17-Sep-2009

Custody: 61065

**Order #: 0938192**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
0938192-01	MW5-L-2
0938192-02	MW3-1

Approved By:



Dale Robertson, BSc  
Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

**Certificate of Analysis**

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

Client: **INTERA Engineering Ltd.**

Client PO:

Project Description: 09-205

**Analysis Summary Table**

Analysis	Method Reference/Description	Extraction Date	Analysis Date
E. coli	MOE E3407	17-Sep-09	18-Sep-09
Heterotrophic Plate Count	SM 9215C	17-Sep-09	17-Sep-09
Total Coliform	MOE E3407	17-Sep-09	18-Sep-09

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Niagara Falls, ON L2J 0A3

**SARNIA**  
123 Christina St. N.  
Sarnia, ON N7T 5T7

# Certificate of Analysis

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

 Client: **INTERA Engineering Ltd.**

Client PO:

Project Description: 09-205

<b>Client ID:</b>	MW5-L-2	MW3-1	-	-
<b>Sample Date:</b>	16-Sep-09	17-Sep-09	-	-
<b>Sample ID:</b>	0938192-01	0938192-02	-	-
<b>MDL/Units</b>	Water	Water	-	-

**Microbiological Parameters in Water**

E. coli	1 CFU/100 mL	1	ND	-	-
Total Coliforms	1 CFU/100 mL	36	ND	-	-
Heterotrophic Plate Count	10 CFU/ml	30	790	-	-

## Certificate of Analysis

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

 Client: **INTERA Engineering Ltd.**

Client PO:

Project Description: 09-205

### Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Microbiological Parameters in Water</b>									
E. coli	ND	1	CFU/100 mL						
Total Coliforms	ND	1	CFU/100 mL						
Heterotrophic Plate Count	ND	10	CFU/ml						

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## Certificate of Analysis

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

 Client: **INTERA Engineering Ltd.**

Client PO:

Project Description: 09-205

### Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<b>Microbiological Parameters in Water</b>									
E. coli	ND	1	CFU/100 mL	ND				30	
Total Coliforms	ND	1	CFU/100 mL	ND				30	
Heterotrophic Plate Count	10	10	CFU/ml	30			100.0	30	BAC04

**Certificate of Analysis**

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

Client: **INTERA Engineering Ltd.**

Client PO:

Project Description: 09-205

**Sample and QC Qualifiers Notes**

1- BAC04 : Duplicate QC data falls within method prescribed 95% confidence limits.

**Sample Data Revisions**

None

**Work Order Revisions/Comments:**

None

**Other Report Notes:**

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.



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Chain of Custody Record

Nº 61065

Pg. 1 of 1

Company Name: <u>INTERA</u>	Project Ref: <u>09-205</u>	Date Required: _____
Contact Name: <u>Sean Sterling</u>	PO# _____	Turn Around Time: <input type="checkbox"/> 1-day <input type="checkbox"/> 2-day <input checked="" type="checkbox"/> Regular
Address: <u>1 Raymond Street</u>	Quote # _____ <input type="checkbox"/> Not Quoted	Regulatory/Guideline Requirements <input checked="" type="checkbox"/>
Tel: <u>613-232-2525</u> Cell: <u>613-658-0185</u>	Preservative to be added by Paracel? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Email: <u>ssterling@intera.ca</u>		

Matrix Types: S-Soil/Sed GW-Ground Water SW-Surface Water SS-Storm/Sanitary Sewer A-Air O-Other RDW-Regulated Drinking Water

Sample Information					Analysis Required											
Paracel Order #	Matrix	Air Volume ML	# Containers	Date Sampled dd/mm/yy	Bac.T	T. Coliforms	Bac.T Plate Count									Hazardous? (Y/N)
0938192 AW 17-09-09 Sample Identification																
1	MW5-L-#2	GW 250	1	16-Sept-09 (210)	X	X	X									N
2	MW3-1	GW 250	1	17-Sept-09 (0852)	X	X	X									N
3	<del>MW5-L-2</del>	<del>GW 250</del>	<del>1</del>	<del>16-Sept-09 (210)</del>												
4																
5																
6																
7																
8																
9																
10																

Comments: LM for Shawn in regards to BACT analysis. A3  
NOT TO DO - YUN for E.coli, TC, HPC as per Andrew AD

Relinquished By: <u>Michael Melaney</u>	Received at Depot:	Received at Lab:	Verified By: <u>WIOC</u>
Date: <u>17-Sept-09</u> Time: <u>13:24</u>	Date: _____ Time: _____	Date: <u>Sept 17 09</u> Time: <u>1:25</u>	Date: <u>9/9/17</u> Time: <u>14:58</u>



## Review Items

<u>Lab Number</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Exception</u>
			Default Report (not modified) VERSION 5.85:2889
0911806-DU	E. coli	E. coli	_ND: ND
0911806-DU	Total Coliform	Total Coliforms	_ND: ND
0911806-DU	E. coli	E. coli	_ND: ND
0911806-DU	Total Coliform	Total Coliforms	_ND: ND
0911842-DU	Heterotrophic Plate Count	Heterotrophic Plate Count	BAC04: Duplicate QC data falls within method prescribed 95% confidence limits.
0911842-DU	Heterotrophic Plate Count	Heterotrophic Plate Count	Exceeds RPD control limit
0938192-02	E. coli	E. coli	_ND: ND
0938192-02	Total Coliform	Total Coliforms	_ND: ND

## *Certificate of Analysis*

**INTERA Engineering Ltd.**

Suite 200, 1 Raymond St.  
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Attn: Sean Sterling

Phone: (613) 232-2525  
Fax: (613) 232-7149

Client PO: 09-206  
Project: 09-206 Lansdowne  
Custody: 61025

Report Date: 22-Sep-2009  
Order Date: 17-Sep-2009

**Order #: 0938195**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

**Paracel ID    Client ID**  
0938195-01    MW5

Approved By:



Dale Robertson, BSc  
Laboratory Director

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**Certificate of Analysis**

Report Date: 22-Sep-2009

Order Date: 17-Sep-2009

Client: **INTERA Engineering Ltd.**

Client PO: 09-206

Project Description: 09-206 Lansdowne

**Analysis Summary Table**

Analysis	Method Reference/Description	Extraction Date	Analysis Date
E. coli	MOE E3407	17-Sep-09	18-Sep-09
Heterotrophic Plate Count	SM 9215C	17-Sep-09	17-Sep-09
Total Coliform	MOE E3407	17-Sep-09	18-Sep-09

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